Laboratoire d'Informatique Gaspard Monge

Publications

1er janvier 2013 - 30 juin 2018

Équipe Algorithmes, Architectures, Analyse et Synthèse d'Images

1 Journaux / Revues

1.1 Articles scientifiques

[AJ1] **Mohamed Akil** and Mohamed Hedi Bedoui. Special issue on real-time processing of medical images. *Journal of Real-Time Image Processing*, J Real-Time Image Proc (2017) 13 :101–102, June 2017.

[AJ2] Ignacio Araya and **Bertrand Neveu**. lsmear : a variable selection strategy for interval branch and bound solvers. *Journal of Global Optimization*, 71(3) :483–500, 2017.

[AJ3] Ignacio Araya, Gilles Trombettoni, **Bertrand Neveu**, and Gilles Chabert. Upper bounding in inner regions for global optimization under inequality constraints. *Journal of Global Optimization*, 60(2) :145–164, 2014.

[AJ4] **Mathieu Aubry**, Sylvain Paris, Samuel Hasinoff, Jan Kautz, and Frédo Durand. Fast Local Laplacian Filters : Theory and Applications. *ACM Transactions on Graphics*, 33(5) :167.1–167.14, 2014.

[AJ5] Ketan Bacchuwar, **Jean Cousty**, Régis Vaillant, and **Laurent Najman**. Scale-space for empty catheter segmentation in PCI fluoroscopic images. *International Journal of Computer Assisted Radiology and Surgery*, 12(7) :1179–1188, 2017.

[AJ6] Nejmeddine Bahri, Nidhameddine Belhadj, **Thierry Grandpierre**, Mohamed Ali Ben Ayed, Nouri Masmoudi, and **Mohamed Akil**. Real-time H264/AVC encoder based on enhanced frame level parallelism for smart multicore DSP camera. *Journal of Real-Time Image Processing*, to appear :1–22, November 2014.

[AJ7] Nejmeddine Bahri, Nidhameddine Belhadj, **Thierry Grandpierre**, Mohamed Ayed, Nouri Masmoudi, and **Mohamed Akil**. Real-time H264/AVC encoder based on enhanced frame level parallelism for smart multicore DSP camera. *Journal of Real-Time Image Processing*, 12(4) :791 – 812, December 2016.

[AJ8] Nejmeddine Bahri, **Thierry Grandpierre**, Med Ali Ben Ayed, Nouri Masmoudi, and **Mohamed Akil**. Embedded Real-Time H264/AVC High Definition Video Encoder on TI's KeyStone Multicore DSP. *Journal of Signal Processing Systems*, 86(1) :67–84, 2017.

[AJ9] Nejmeddine Bahri, Imen Werda, **Thierry Grandpierre**, Mohamed Ali Ben Ayed, Nouri Masmoudi, and **Mohamed Akil**. Optimizations for real-time implementation of H264/AVC video encoder on DSP processor. *International Review on Computers and Software (IRE-COS)*, 8(9) :2025–2035, 2013.

[AJ10] Jan Bartovsky, Petr Dokládal, **Eva Dokladalova**, Michel Bilodeau, and **Mohamed Akil**. Real-time implementation of morphological filters with polygonal structuring elements. *Journal of Real-Time Image Processing*, 10(1) :175–187, 2015.

[AJ11] Jan Bartovsky, Petr Dokládal, Matthieu Faessel, **Eva Dokladalova**, and Michel Bilodeau. Morphological co-processing unit for embedded devices. *Journal of Real-Time Image Processing*, pages pp. 1–12, 2015.

[AJ12] Walid Behiri, Sana Belmokhtar-Berraf, and **Chengbin Chu**. Urban freight transport using passenger rail network : Scientific issues and quantitative analysis. *Transportation Research Part E : Logistics and Transportation Review*, 115 :227 – 245, 2018.

[AJ13] **Gilles Bertrand** and **Michel Couprie**. Powerful Parallel and Symmetric 3D Thinning Schemes Based on Critical Kernels. *Journal of Mathematical Imaging and Vision*, 48(1) :134–148, January 2014.

[AJ14] **Gilles Bertrand** and **Michel Couprie**. Isthmus based parallel and symmetric 3d thinning algorithms. *Graphical Models*, 80 :1–15, 2015.

[AJ15] Alexandre Boulch, **Martin De La Gorce**, and **Renaud Marlet**. Piecewise-planar 3d reconstruction with edge and corner regularization. *Computer Graphics Forum*, 33(5) :55–64, 2014.

[AJ16] Alexandre Boulch, Simon Houllier, **Renaud Marlet**, and Olivier Tournaire. Semantizing complex 3d scenes using constrained attribute grammars. *Computer Graphics Forum*, 32(5) :33–42, 2013.

[AJ17] Alexandre Boulch and **Renaud Marlet**. Deep learning for robust normal estimation in unstructured point clouds. *Computer Graphics Forum*, 35(5) :281 – 290, 2016.

[AJ18] Nicolas Boutry, Thierry Géraud, and **Laurent Najman**. A tutorial on well-composedness. *Journal of Mathematical Imaging and Vision*, 60(3) :443–478, 2018.

[AJ19] Stéphane Breuils, **Vincent Nozick**, and Laurent Fuchs. A geometric algebra implementation using binary tree. *Advances in Applied Clifford Algebras*, 1 :1–19, 2017.

[AJ20] Stéphane Breuils, **Vincent Nozick**, Akihiro Sugimoto, and Eckhard Hitzer. Quadric Conformal Geometric Algebra of $\mathbb{R}^{9,6}$. *Advances in Applied Clifford Algebras*, 28(2) :35, May 2018.

[AJ21] Thibaud Briand and **Pascal Monasse**. Theory and Practice of Image B-Spline Interpolation. *Image Processing On Line*, 8 :99–141, 2018.

[AJ22] Thibaud Briand and Jonathan Vacher. How to Apply a Filter Defined in the Frequency Domain by a Continuous Function. *Image Processing On Line*, 6 :183–211, 2016.

[AJ23] Norbert Bus, Shashwat Garg, **Nabil Mustafa**, and Saurabh Ray. Tighter Estimates for ε-nets for Disks. *Computational Geometry : Theory and Applications Computational Geometry @ ScienceDirect*, //hal.archives-ouvertes.fr/hal-01345860/file/epsnetsfordisks.pdf, 2016.

[AJ24] Norbert Bus, Shashwat Garg, **Nabil Mustafa**, and Saurabh Ray. Limits of local search : Quality and efficiency. *Discrete and Computational Geometry*, 2017.

[AJ25] Norbert Bus, **Nabil Mustafa**, and **Venceslas Biri**. Global illumination using well-separated pair decomposition. *Computer Graphics Forum*, 34(8) :88 – 103, 2015.

[AJ26] Norbert Bus, **Nabil Mustafa**, and **Venceslas Biri**. IlluminationCut. *Computer Graphics Forum*, 34(2) :561 – 573, 2015.

[AJ27] Norbert Bus, **Nabil Mustafa**, and Saurabh Ray. Practical and efficient algorithms for the geometric hitting set problem. *Discrete Applied Mathematics*, 240 :25 – 32, May 2018.

[AJ28] Juan-Pablo Cares, Maria Cristina Riff, and **Bertrand Neveu**. GeneRa : A problem generator for radiotherapy treatment scheduling problems. *Annals of Mathematics and Artificial Intelligence*, 76(1-2) :191–214, February 2016.

[AJ29] Edwin Carlinet and Thierry Géraud. A Comparative Review of Component Tree Computation Algorithms. *IEEE Transactions on Image Processing*, 23(9) :3885 – 3895, September 2014.

[AJ30] Edwin Carlinet and Thierry Géraud. MToS : A Tree of Shapes for Multivariate Images. *IEEE Transactions on Image Processing*, 24(12) :5330 – 5342, December 2015.

[AJ31] Aditya Challa, Sravan Danda, B S Daya Sagar, and **Laurent Najman**. Some Properties of Interpolations Using Mathematical Morphology. *IEEE Transactions on Image Processing*, 27(4) :2038–2048, April 2018.

[AJ32] **Giovanni Chierchia**, Mireille El Gheche, Giuseppe Scarpa, and Luisa Verdoliva. Multi-temporal sar image despeckling based on block-matching and collaborative filtering. *IEEE Transactions on Geoscience and Remote Sensing*, 55(10) :5467 – 5480, 2017.

[AJ33] **Giovanni Chierchia**, Nelly Pustelnik, **Jean-Christophe Pesquet**, and Béatrice Pesquet-Popescu. Epigraphical splitting for solving constrained convex optimization problems with proximal tools. *Signal, Image and Video Processing*, 9(8) :1737–1749, 2015.

[AJ34] **Giovanni Chierchia**, Nelly Pustelnik, Béatrice Pesquet-Popescu, and **Jean-Christophe Pesquet**. A non-local structure tensor based approach for multicomponent image recovery problems. *IEEE Transactions on Image Processing*, 23(12) :5531–5544, 2014.

[AJ35] **Emilie Chouzenoux**, Anna Jezierska, **Jean-Christophe Pesquet**, and **Hugues Talbot**. A Majorize-Minimize subspace approach for l2-l0 image regularization. *Siam Journal of Imaging Science*, 6(1) :563–591, 2013.

[AJ36] Adina Ciomaga, **Pascal Monasse**, and Jean-Michel Morel. The Image Curvature Microscope : Accurate Curvature Computation at Subpixel Resolution. *Image Processing On Line*, 7 :197–217, July 2017.

[AJ37] Olivier Collier and **Arnak S. Dalalyan**. Permutation estimation and minimax rates of identifiability. *JMLR*, 31 :10–19, 2013.

[AJ38] Laëtitia Comminges and **Arnak S. Dalalyan**. Minimax testing of a composite null hypothesis defined via a quadratic functional in the model of regression. *Electronic journal of statistics* , 7 :146–190, January 2013.

[AJ39] Camille Couprie, Clément Farabet, **Laurent Najman**, and Yann Lecun. Convolutional Nets and Watershed Cuts for Real-Time Semantic Labeling of RGBD Videos. *Journal of Machine Learning Research*, 15 :3489–3511, October 2014.

[AJ40] Camille Couprie, Leo Grady, **Laurent Najman**, **Jean-Christophe Pesquet**, and **Hugues Talbot**. Dual constrained TV-based regularization on graphs. *SIAM Journal on Imaging Sciences*, 6(3) :246–1273, July 2013. 26 pages.

[AJ41] **Michel Couprie**. Topological maps and robust hierarchical Euclidean skeletons in cubical complexes. *Computer Vision and Image Understanding*, 117(4) :355–369, April 2013.

[AJ42] **Michel Couprie** and **Gilles Bertrand**. Asymmetric parallel 3d thinning scheme and algorithms based on isthmuses. *Pattern Recognition Letters*, 76 :22–31, 2016.

[AJ43] **Michel Couprie**, Samuel Meulenyzer, Mohamed Amine Salem, **Hugues Talbot**, and Fabrice Pourcel. Fibre analysis in 3D materials and process validation on artificial data. *Journal of Microscopy*, 255(2) :78–88, May 2014.

[AJ44] **Jean Cousty**, **Gilles Bertrand**, **Michel Couprie**, and **Laurent Najman**. Collapses and watersheds in pseudomanifolds of arbitrary dimension. *Journal of Mathematical Imaging and Vision*, 50(3) :261–285, 2014.

[AJ45] **Jean Cousty**, **Laurent Najman**, Fabio Dias, and **Jean Serra**. Morphological filtering on graphs. *Computer Vision and Image Understanding*, 117(4) :370–385, April 2013.

[AJ46] **Jean Cousty**, **Laurent Najman**, **Yukiko Kenmochi**, and Silvio Guimarães. Hierarchical segmentations with graphs : quasi-flat zones, minimum spanning trees, and saliency maps. *Journal of Mathematical Imaging and Vision*, 2018.

[AJ47] Carlo de Franchis, Enric Meinhardt-Llopis, Daniel Greslou, and Gabriele Facciolo. Attitude Refinement for Orbiting Pushbroom Cameras : a Simple Polynomial Fitting Method. *Image Processing On Line*, 2015 :328–361, December 2015.

[AJ48] Johanna Delanoy, Phillip Isola, **Mathieu Aubry**, Alexei A Efros, and Adrien Bousseau. 3D Sketching using Multi-View Deep Volumetric Prediction . *Proceedings of the ACM on Computer Graphics and Interactive Techniques*, 1(21), 2018.

[AJ49] Fabio Dias, **Jean Cousty**, and **Laurent Najman**. Dimensional operators for mathematical morphology on simplicial complexes. *Pattern Recognition Letters*, 47 :111–119, October 2014.

[AJ50] Alice Dufour, Olena Tankyevych, Benoît Naegel, **Hugues Talbot**, Christian Ronse, Joseph Baruthio, Petr Dokládal, and Nicolas Passat. Filtering and segmentation of 3D angiographic data : Advances based on mathematical morphology. *Medical Image Analysis*, 17(2) :147–164, 2013.

[AJ51] Yaroub Elloumi, **Mohamed Akil**, and Mohamed Hedi Bedoui. Execution Time Optimization Using Delayed Multidimensional Retiming. *International Journal of High Performance Systems Architecture (IJHPSA)*, 5(3) :178–191, 2015.

[AJ52] Yaroub Elloumi, **Mohamed Akil**, and Nasser Kehtarnavaz. A Computationally Efficient Retina Detection and Enhancement Image Processing Pipeline for Smartphone-Captured Fundus Images. *Journal of Multimedia Information System*, 2018.

[AJ53] Yaroub Elloumi, **Mohamed Akil**, and Nasser Kehtarnavaz. A Mobile Computer Aided System for Optic Nerve Head Detection. *Computer Methods and Programs in Biomedicine*, May 2018.

[AJ54] Abderrahim Elmoataz, François Lozes, and **Hugues Talbot**. Morphological PDEs on Graphs for Image Processing on Surfaces and Point Clouds. *International Journal of Geo-Infomation Special Issue "Mathematical Morphology in Geoinformatics"*, 2016.

[AJ55] Clément Farabet, Camille Couprie, **Laurent Najman**, and Yann Lecun. Learning hierarchical features for scene labeling. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 35(8) :1915 – 1929, 2013.

[AJ56] Oussama Feki, **Thierry Grandpierre**, Nouri Masmoudi, and **Mohamed Akil**. Optimized Implementation of H.264/AVC Motion Estimation on a Mixed Architecture Using SynDEx-Mix. *International Review on Computers and Software (IRECOS)*, 11(5), May 2016.

[AJ57] Laura Fernández Julià and **Pascal Monasse**. Bilaterally Weighted Patches for Disparity Map Computation. *Image Processing On Line*, 5 :73–89, March 2015.

[AJ58] Aniello Fiengo, **Giovanni Chierchia**, Marco Cagnazzo, and Béatrice Pesquet-Popescu. Rate allocation in predictive video coding using a convex optimization framework. *IEEE Transactions on Image Processing*, 26(1) :479 – 489, 2017.

[AJ59] Arie Finkelstein, **Hugues Talbot**, Suat Topsu, Thérèse Cynober, Loïc Garçon, Gregor Havkin, and Frans Kuypers. Comparison between a Camera and a Four Quadrant Detector, in the Measurement of Red Blood Cell Deformability as a Function of Osmolality. *Journal of Medical and Bioengineering*, 2(1) :62–65, March 2013. 4 pages.

[AJ60] <u>Raghudeep Gadde</u>, Varun Jampani, **Renaud Marlet**, and Peter Gehler. Efficient 2d and 3d facade segmentation using auto-context. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 40(5) :1273–1280, 2018.

[AJ61] <u>Raghudeep Gadde</u>, **Renaud Marlet**, and **Nikos Paragios**. Learning grammars for architecture-specific facade parsing. *International Journal of Computer Vision*, 117(3) :290–316, 2015.

[AJ62] Mireille El Gheche, **Giovanni Chierchia**, and **Jean-Christophe Pesquet**. Proximity operators of discrete information divergences. *IEEE Transactions on Information Theory*, 64(2) :1092–1104, 2018.

[AJ63] Bastian Goldluecke, **Mathieu Aubry**, Kalin Kolev, and Daniel Cremers. A Super-resolution Framework for High-Accuracy Multiview Reconstruction. *International Journal of Computer Vision*, 106(2) :172–191, January 2014.

[AJ64] Petr Gronát, **Guillaume Obozinski**, Josef Sivic, and Tomáš Pajdla. Learning and calibrating per-location classifiers for visual place recognition. *International Journal of Computer Vision*, 118(3) :319–336, April 2016.

[AJ65] Silvio Guimarães, **Yukiko Kenmochi**, **Jean Cousty**, Zenilton Patrocinio, and **Laurent Najman**. Hierarchizing graph-based image segmentation algorithms relying on region dissimilarity : the case of the Felzenszwalb-Huttenlocher method. *Mathematical Morphology - Theory and Applications*, 2017.

[AJ66] Jörg H. Kappes, Bjoern Andres, Fred A. Hamprecht, Christoph Schnörr, Sebastian Nowozin, Dhruv Batra, Sungwoong Kim, Bernhard X. Kausler, Thorben Kröger, Jan Lellmann, **Nikos Komodakis**, Bogdan Savchynskyy, and Carsten Rother. A comparative study of modern inference techniques for structured discrete energy minimization problems. *International Journal of Computer Vision*, 2015.

[AJ67] Tsubasa Hirakawa, Toru Tamaki, Takio Kurita, Bisser Raytchev, Kazufumi Kaneda, **Chaohui Wang**, and **Laurent Najman**. Tree-wise Discriminative Subtree Selection for Texture Image Labeling. *IEEE Access*, 5 :13617 – 13634, July 2017.

[AJ68] Anna Jezierska, Caroline Chaux, **Jean-Christophe Pesquet**, **Hugues Talbot**, and Gilbert Engler. An EM Approach for Time-Variant Poisson-Gaussian Model Parameter Estimation. *IEEE Transactions on Signal Processing*, 62(1) :17–30, January 2014.

[AJ69] <u>Thibault Julliand</u>, **Vincent Nozick**, and **Hugues Talbot**. Countering Noise-based Splicing Detection Using Noise Density Transfer. *Journal of Digital Forensics, Security and Law*, 11(2) :111–122, September 2016.

[AJ70] Pavel Karas, Vincent Morard, Jan Bartovsky, **Thierry Grandpierre**, **Eva Dokladalova**, Petr Matula, and Petr Dokládal. GPU Implementation of Linear Morphological Openings with Arbitrary Angle. *Journal of Real-Time Image Processing*, 10(1) :27–41, 2015.

[AJ71] <u>Bangalore Ravi Kiran</u> and **Jean Serra**. Global-local optimizations by hierarchical cuts and climbing energies. *Pattern Recognition Letters*, 47(1) :12–24, 2014. Preprint version.

[AJ72] H. A. Kirişli, M. Schaap, C. T. Metz, A. S. Dharampal, W. B. Meijboom, S. L. Papadopoulou, A. Dedic, K. Nieman, M. A. De Graaf, M. F. L. Meijs, M. J. Cramer, A. Broersen, S. Cetin, A. Eslami, L. Flórez-Valencia, K. L. Lor, B. Matuszewski, <u>I. Melki</u>, B. Mohr, I. Oksüz, R. Shahzad, Chen Wang, P. H. Kitslaar, G. Unal, A. Katouzian, M. Orkisz, C. M.

Chen, Frédéric Precioso, **Laurent Najman**, S. Masood, D. Unay, L. Van Vliet, R. Moreno, R. Goldenberg, E. Vuçini, G. P. Krestin, W. J. Niessen, and T. Van Walsum. Standardized evaluation framework for evaluating coronary artery stenosis detection, stenosis quantification and lumen segmentation algorithms in computed tomography angiography. *Medical Image Analysis*, 17(8) :859–876, December 2013.

[AJ73] Vladimir Kolmogorov, **Pascal Monasse**, and Pauline Tan. Kolmogorov and Zabih's Graph Cuts Stereo Matching Algorithm. *Image Processing On Line*, 4 :220–251, October 2014.

[AJ74] **Nikos Komodakis**, Bo Xiang, and **Nikos Paragios**. A framework for efficient structured max-margin learning of high-order mrf models. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2014.

[AJ75] Andrey Kupavskii, **Nabil Mustafa**, and KONRAD SWANEPOEL. Bounding the Size of an Almost-Equidistant Set in Euclidean Space. *Combinatorics, Probability and Computing*, pages 1 – 7, 2018.

[AJ76] Timothée Lacroix, Nicolas Usunier, and **Guillaume Obozinski**. Canonical Tensor Decomposition for Knowledge Base Completion. *Proceedings of the 35th International Conference on Machine Learning*, 2018.

[AJ77] Florent Lafarge, Renaud Keriven, Mathieu Brédif, and Hoang-Hiep Vu. A hybrid multi-view stereo algorithm for modeling urban scenes. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 35(1) :5–17, January 2013.

[AJ78] Amine Laghrib, Mahmoud Ezzaki, Mohammed El Rhabi, Abdelilah Hakim, **Pascal Monasse**, and Said Raghay. Simultaneous deconvolution and denoising using a second order variational approach applied to image super resolution. *Computer Vision and Image Understanding*, August 2017.

[AJ79] Loic Landrieu and **Guillaume Obozinski**. Cut Pursuit : fast algorithms to learn piecewise constant functions on general weighted graphs. *SIAM Journal of Imaging Sciences*, Vol. 10(No. 4) :pp. 1724–1766, 2017.

[AJ80] Jessica Lebenberg, Alain Lalande, Patrick Clarysse, Irene Buvat, Christopher Casta, Alexandre Cochet, Constantin Constantinidès, **Jean Cousty**, Alain De Cesare, Stéphanie Jehan-Besson, Muriel Lefort, **Laurent Najman**, Elodie Roullot, Laurent Sarry, Christophe Tilmant, Frouin Frederique, and Mireille Garreau. Improved Estimation of Cardiac Function Parameters Using a Combination of Independent Automated Segmentation Results in Cardiovascular Magnetic Resonance Imaging. *PLoS ONE*, 10(8) :e0135715, August 2015.

[AJ81] Alain Lebret, **Yukiko Kenmochi**, Jérôme Hodel, Alain Rahmouni, Philippe Decq, and Éric Petit. Volumetric relief map for intracranial cerebrospinal fluid distribution analysis. *Computerized Medical Imaging and Graphics*, 44 :26–40, September 2015.

[AJ82] Alain Lebret, **Yukiko Kenmochi**, and Toru Tamaki. Intrinsic Profile Analysis of Intracranial Cerebrospinal Fluid. *IRBM*, 38(6) :339–345, 2017.

[AJ83] Vianney Loing, **Renaud Marlet**, and **Mathieu Aubry**. Virtual Training for a Real Application : Accurate Object-Robot Relative Localization without Calibration. *International Journal of Computer Vision*, 2018.

[AJ84] Ramzi Mahmoudi, **Mohamed Akil**, and Mohamed Hedi Bedoui. Concurrent computation of topological watershed on shared memory parallel machines. *Parallel Computing*, 69 :78 – 97, November 2017.

[AJ85] Siim Meerits, **Vincent Nozick**, and Hideo Saito. Real-time scene reconstruction and triangle mesh generation using multiple RGB-D cameras. *Journal of Real-Time Image Processing*, November 2017.

[AJ86] Odyssée Merveille, Benoît Naegel, **Hugues Talbot**, **Laurent Najman**, and Nicolas Passat. 2D filtering of curvilinear structures by ranking the orientation responses of path operators (RORPO). *Image Processing On Line*, 7 :246–261, 2017.

[AJ87] Odyssée Merveille, **Hugues Talbot**, **Laurent Najman**, and Nicolas Passat. Curvilinear structure analysis by ranking the orientation responses of path operators. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 40(2) :304–317, 2018.

[AJ88] Lionel Moisan, Pierre Moulon, and **Pascal Monasse**. Fundamental Matrix of a Stereo Pair, with A Contrario Elimination of Outliers. *Image Processing On Line*, 6 :89 – 113, 2016.

[AJ89] Elizabeth Montero, Maria Cristina Riff, and **Bertrand Neveu**. A beginner's guide to tuning methods. *Applied Soft Computing*, 17 :39–51, 2014.

[AJ90] **Nabil Mustafa**. A Simple Proof of the Shallow Packing Lemma. *Discrete and Computational Geometry*, 55(3) :739–743, 2016.

[AJ91] **Nabil Mustafa**, Kunal Dutta, and Arijit Ghosh. A Simple Proof of Optimal Epsilon Nets. *Combinatorica*, 2017.

[AJ92] **Nabil Mustafa** and János Pach. On the Zarankiewicz Problem for the Intersection Hypergraphs. *Journal of Combinatorial Theory, Series A*, 141 :1–7, 2016.

[AJ93] **Nabil Mustafa**, Rajiv Raman, and Saurabh Ray. QPTAS for Weighted Geometric Set Cover on Pseudodisks and Halfspaces. *SIAM Journal on Computing*, 2015.

[AJ94] **Nabil Mustafa** and Saurabh Ray. An Optimal Generalization of the Colorful Carathéodory Theorem. *Discrete Mathematics*, 2016.

[AJ95] **Nabil Mustafa** and Saurabh Ray. Epsilon-Mnets : Hitting Geometric Set Systems with Subsets. *Discrete and Computational Geometry*, 2017.

[AJ96] **Nabil Mustafa**, Saurabh Ray, and Mudassir Shabbir. K-Centerpoints Conjectures for Pointsets in R^d . *International Journal of Computational Geometry and Applications*, 23(3) :23, August 2015.

[AJ97] **Nabil Mustafa**, Hans Raj Tiwary, and Daniel Werner. A Proof of the Oja Depth Conjecture in the Plane. *Computational Geometry : Theory and Applications Computational Geometry @ ScienceDirect*, //hal.archives-ouvertes.fr/hal-01026341/file/OjaDepth.pdf, 2014.

[AJ98] **Laurent Najman**. Extending the powerwatershed framework thanks to γ-convergence. *SIAM Journal on Imaging Sciences*, 10(4) :2275–2292, 2017.

[AJ99] **Laurent Najman** and **Jean Cousty**. A graph-based mathematical morphology reader. *Pattern Recognition Letters*, 47 :3–17, 2014.

[AJ100] **Laurent Najman** and Pascal Romon. *Modern Approaches to Discrete Curvature*, volume 2184 of *Lecture Note in Mathematics*. 2017.

[AJ101] **Bertrand Neveu**, Gilles Trombettoni, and Ignacio Araya. Adaptive constructive interval disjunction : algorithms and experiments. *Constraints*, 20(7) :452–467, 2015.

[AJ102] **Bertrand Neveu**, Gilles Trombettoni, and Ignacio Araya. Node selection strategies in interval branch and bound algorithms. *Journal of Global Optimization*, 64(2) :289–304, 2016.

[AJ103] Phuc Ngo, **Yukiko Kenmochi**, Nicolas Passat, and **Hugues Talbot**. Combinatorial structure of rigid transformations in 2d digital images. *Computer Vision and Image Understanding*, 117(4) :393–408, 2013.

[AJ104] Phuc Ngo, **Yukiko Kenmochi**, Nicolas Passat, and **Hugues Talbot**. Topology-preserving conditions for 2d digital images under rigid transformations. *Journal of Mathematical Imaging and Vision*, 49(2) :418–433, 2014.

[AJ105] Phuc Ngo, **Yukiko Kenmochi**, Nicolas Passat, and **Hugues Talbot**. On 2D constrained discrete rigid transformations. *Annals of Mathematics and Artificial Intelligence*, 75(1-2) :163–193, 2015.

[AJ106] Phuc Ngo, **Yukiko Kenmochi**, Akihiro Sugimoto, **Hugues Talbot**, and Nicolas Passat. Discrete rigid registration : A local graph-search approach. *Discrete Applied Mathematics*, 216(2) :461–481, 2017.

[AJ107] Phuc Ngo, Nicolas Passat, **Yukiko Kenmochi**, and **Hugues Talbot**. Topology-preserving rigid transformation of 2d digital images. *IEEE Transactions on Image Processing*, 23(2) :885–897, 2014.

[AJ108] Laurent Noël and **Venceslas Biri**. Real-Time Global Illumination using Topological Information. *GSTF Journal on Computing*, 4(1) :1–10, 2014.

[AJ109] **Vincent Nozick**. Camera array image rectification and calibration for stereoscopic and autostereoscopic displays. *Annals of Telecommunications - annales des télécommunications*, 68(11) :581–596, July 2013.

[AJ110] **Guillaume Obozinski**. Grouping strategies and thresholding for high dimensional linear models : Discussion. *Journal of Statistical Planning and Inference*, 143(9) :1441–1446, May 2013.

[AJ111] Edouard Oyallon, Sergey Zagoruyko, Gabriel Huang, **Nikos Komodakis**, Simon Lacoste-Julien, Matthew Blaschko, and Eugene Belilovsky. Scattering Networks for Hybrid Representation Learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, page 11, September 2018.

[AJ112] Costas Panagiotakis, Harris Papadakis, Elias Grinias, **Nikos Komodakis**, Paraskevi Fragopoulou, and Georgios Tziritas. Interactive Image Segmentation Based on Synthetic Graph Coordinates. *Pattern Recognition*, 46(11) :2940–2952, November 2013.

[AJ113] **Nikos Paragios**, Enzo Ferrante, Ben Glocker, **Nikos Komodakis**, Sarah Parisot, and Evangelia I. Zacharaki. (Hyper)-Graphical Models in Biomedical Image Analysis. *Medical Image Analysis*, 2016.

[AJ114] **Benjamin Perret**. Inf-structuring functions : A unifying theory of connections and connected operators. *Journal of Mathematical Imaging and Vision*, 51(1) :171–194, 2015.

[AJ115] **Benjamin Perret** and Christophe Collet. Connected image processing with multivariate attributes : an unsupervised markovian classification approach. *Computer Vision and Image Understanding*, 133 :1–14, 2015.

[AJ116] **Benjamin Perret**, **Jean Cousty**, Silvio J.F. Guimarães, and Deise S Maia. Evaluation of hierarchical watersheds. *IEEE Transactions on Image Processing*, 27(4) :1676–1688, 2018.

[AJ117] **Benjamin Perret**, **Jean Cousty**, Olena Tankyevych, **Hugues Talbot**, and Nicolas Passat. Directed connected operators : Asymmetric hierarchies for image filtering and segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 37(6) :1162–1176, 2015.

[AJ118] Kacper Pluta, Pascal Romon, **Yukiko Kenmochi**, and Nicolas Passat. Bijective digitized rigid motions on subsets of the plane. *Journal of Mathematical Imaging and Vision*, 59(1) :84–105, 2017.

[AJ119] Kacper Pluta, Tristan Roussillon, David Cœurjolly, Pascal Romon, **Yukiko Kenmochi**, and Victor Ostromoukhov. Characterization of bijective digitized rotations on the hexagonal grid. *Journal of Mathematical Imaging and Vision*, 2018.

[AJ120] Paulo Possa, Naim Harb, **Eva Dokladalova**, and Carlos Valderrama. P2IP : A novel low-latency Programmable Pipeline Image Processor. *Microprocessors and Microsystems : Embedded Hardware Design (MICPRO)*, page In press, June 2015.

[AJ121] Michal Postolski, **Michel Couprie**, and Marcin Janaszewski. Scale filtered Euclidean medial axis and its hierarchy. *Computer Vision and Image Understanding*, 129 :89–102, December 2014.

[AJ122] Michal Postolski, **Michel Couprie**, and Marcin Janaszewski. Scale filtered Euclidean medial axis and its hierarchy. *Computer Vision and Image Understanding*, 129 :89 – 102, 2014.

[AJ123] Élodie Puybareau, Diane Genest, Emilie Barbeau, Marc Léonard, and **Hugues Talbot**. An automated assay for the assessment of cardiac arrest in fish embryo. *Computers in Biology and Medicine*, 81 :32–44, February 2017.

[AJ124] Maria Cristina Riff, Juan-Pablo Cares, and **Bertrand Neveu**. RASON : A new approach to the scheduling radiotherapy problem that considers the current waiting times. *Expert Systems with Applications*, 64 :287–295, December 2016.

[AJ125] Maria Cristina Riff, Elizabeth Montero, and **Bertrand Neveu**. Reducing calibration effort for clonal selection based algorithms : A reinforcement learning approach. *Knowledge-Based Systems*, 41 :54–67, March 2013.

[AJ126] Antoine Salomon and Jean-Yves Audibert. Robustness of stochastic bandit policies. *Theoretical Computer Science*, 519 :46 – 67, January 2014.

[AJ127] Antoine Salomon, Jean-Yves Audibert, and Issam El Alaoui. Lower bounds and selectivity of weak-consistent policies in stochastic multi-armed bandit problem. *Journal of Machine Learning Research*, 14(1) :187–207, 2013.

[AJ128] Engilbert Sigurdsson, Silvia Valero, Jon Atli Benediktsson, Jocelyn Chanussot, **Hugues Talbot**, and E. stefansson. Automatic retinal vessel extraction based on directional mathematical morphology and fuzzy classification. *Pattern Recognition Letters*, page Accepted for publication, 2014.

[AJ129] Mahmoud Soua, **Rostom Kachouri**, and **Mohamed Akil**. Gpu parallel implementation of the new hybrid binarization based on kmeans method (hbk). *Journal of Real-Time Image Processing*, 2014.

[AJ130] Pauline Tan and **Pascal Monasse**. Stereo Disparity through Cost Aggregation with Guided Filter. *Image Processing On Line*, pages 252–275, October 2014.

[AJ131] Zhongwei Tang, Rafael Grompone Von Gioi, **Pascal Monasse**, and Jean-Michel Morel. A Precision Analysis of Camera Distortion Models. *IEEE Transactions on Image Processing*, 26(6) :2694 – 2704, March 2017.

[AJ132] Xiaolin Tian, Licheng Jiao, Zhipeng Gan, **Chaohui Wang**, and Xiaoli Zheng. Consistency-constrained Non-negative Coding for Tracking. *IEEE Transactions on Circuits and Systems for Video Technology*, 27(4) :880–891, 2017.

[AJ133] Maria Vakalopoulou, Konstantinos Karantzalos, **Nikos Komodakis**, and **Nikos Paragios**. Graph-Based Registration, Change Detection, and Classification in Very High Resolution Multitemporal Remote Sensing Data. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 9 :2940 – 2951, 2016.

[AJ134] Chaoyue Wang, Chang Xu, **Chaohui Wang**, and Dacheng Tao. Perceptual Adversarial Networks for Image-to-Image Transformation. *IEEE Transactions on Image Processing*, 27(8) :4066 – 4079, August 2018.

[AJ135] Yongchao Xu, Edwin Carlinet, Thierry Géraud, and **Laurent Najman**. Hierarchical segmentation using tree-based shape spaces. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 39(3) :457–469, 2017.

[AJ136] Yongchao Xu, Thierry Géraud, and **Laurent Najman**. Connected filtering on tree-based shape-spaces. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 38(6) :1126 – 1140, 2016.

[AJ137] Yongchao Xu, Thierry Géraud, and **Laurent Najman**. Hierarchical image simplification and segmentation based on Mumford-Shah-salient level line selection. *Pattern Recognition Letters*, May 2016.

[AJ138] Yongchao Xu, **Pascal Monasse**, Thierry Géraud, and **Laurent Najman**. Tree-based morse regions : A topological approach to local feature detection. *IEEE Transactions on Image Processing*, 23(12) :5612–5625, 2014.

[AJ139] Imane Youkana, **Jean Cousty**, Rachida Saouli, and **Mohamed Akil**. Parallelization strategy for elementary morphological operators on graphs : distance-based algorithms and implementation on multicore shared-memory architecture. *Journal of Mathematical Imaging and Vision*, 12(7) :136–160, June 2017. to appear in Journal of Mathematical Imaging and Vision.

[AJ140] Yule Yuan, Wenbin Zou, Yong Zhao, Xinan Wang, Xuefeng Hu, and **Nikos Komodakis**. A Robust and Efficient Approach to License Plate Detection. *IEEE Transactions on Image Processing*, 26(3) :1102 – 1114, March 2017.

[AJ141] Yun Zeng, **Chaohui Wang**, Xianfeng Gu, Dimitris Samaras, and **Nikos Paragios**. Higher-order Graph Principles towards Non-rigid Surface Registration. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 38(12) :2416 – 2429, December 2016.

[AJ142] Wenbin Zou, Zhi Liu, Kidiyo Kpalma, Joseph Ronsin, Yong Zhao, and **Nikos Komodakis**. Unsupervised Joint Salient Region Detection and Object Segmentation. *IEEE Transactions on Image Processing*, 24(11), November 2015.

[AJ143] Wenbin Zou, Yi Tang, Xia Li, Chen Xu, and **Nikos Komodakis**. SCOM : Spatiotemporal Constrained Optimization for Salient Object Detection. *IEEE Transactions on Image Processing*, 27(7) :3345 – 3357, July 2018.

1.2 Articles de synthèse / revues bibliographiques

[AS1] **Nikos Komodakis** and **Jean-Christophe Pesquet**. Playing with Duality : An overview of recent primal-dual approaches for solving large-scale optimization problems. *IEEE Signal Processing Magazine*, 2015.

[AS2] **Chaohui Wang**, **Nikos Komodakis**, and **Nikos Paragios**. Markov random field modeling, inference & learning in computer vision & image understanding : A survey. *Computer Vision and Image Understanding*, 117(11) :1610–1627, 2013.

2 Ouvrages

2.1 Direction et coordination d'ouvrages / édition scientifique

[ADO1] **Renaud Marlet**. *Program Specialization*. ISTE Ltd / John Wiley & Sons Inc., February 2013.

[ADO2] **Laurent Najman** and **Hugues Talbot**, editors. *Mathematical Morphology : From Theory to Applications*. Wiley, 2013. Online ISBN : 9781118600788.

2.2 Chapitres d'ouvrage

[ACO1] **Mathieu Aubry**, Bryan C. Russell, and Josef Sivic. Visual geo-localization of non-photographic depictions via 2D-3D alignment. In Amir R. Zamir, Asaad Hakeem, Luc Van Gool, Mubarak Shah, and Richard Szeliski, editors, *Large-Scale Visual Geolocalization* . Springer, 2015.

[ACO2] **Gilles Bertrand** and **Michel Couprie**. Parallel skeletonization algorithms in the cubic grid based on critical kernels. In Punam Saha Gunilla Borgefors Gabriella Sanniti di Baja, editor, *Skeletonization : Theory, Methods and Applications*, pages 181–210. Elsevier, June 2017.

[ACO3] **Robert Jeansoulin**. Big Data : How Geo-information Helped Shape the Future of Data Engineering. In Barry Wellar, editor, *AutoCarto Six Retrospective*, pages 190–201. Information Research Board Inc., December 2013.

[ACO4] Andrey Kupavskii, **Nabil Mustafa**, and János Pach. Near-Optimal Lower Bounds for Epsilon-nets for Half-spaces and Low Complexity Set Systems. In *A Journey Through Discrete Mathematics : A Tribute to Jirí Matousek*, pages 527–541. 2017.

[ACO5] Sébastien Lefèvre, Erchan Aptoula, **Benjamin Perret**, and Jonathan Weber. Morphological Template Matching in Color Images. In *Advances in Low-Level Color Image Processing*, volume 11 of *Lecture Notes in Computational Vision and Biomechanics*, pages 241–277. Springer Netherlands, 2014.

[ACO6] Laurent Lucas and **Venceslas Biri**. TV HD 3D et autostéréoscopie. In Laurent Lucas, Celine Loscos, and Yannick Remion, editors, *Vidéo 3D*, pages 275–290. Hermès, October 2013.

[ACO7] Fernand Meyer and **Laurent Najman**. Segmentation, Minimum Spanning Tree and Hierarchies. In **Laurent Najman** and **Hugues Talbot**, editors, *Mathematical Morphology : From Theory to Applications*, pages 229–261 (Chapter 9). Wiley, 2013. Online ISBN : 9781118600788.

[ACO8] **Nabil Mustafa** and Kasturi Varadarajan. Epsilon-approximations and epsilon-nets. In *Handbook of Discrete and Computational Geometry, 3rd edition*, pages 1241–1267. CRC Press, 2017.

[ACO9] Amir Nakib, **Laurent Najman**, **Hugues Talbot**, and Patrick Siarry. Application of Graph Partitioning to Image Segmentation. In *Graph partitionning*, pages 249–274. John Wiley & Sons, Inc, February 2013.

[ACO10] **Vincent Nozick** and Jean-Baptiste Thomas. Calibration et Rectification. In Laurent Lucas, Celine Loscos, and Yannick Remion, editors, *Vidéo 3D*, pages 105–124. Hermès, October 2013.

[ACO11] **Vincent Nozick** and Jean-Baptiste Thomas. Camera Calibration : Geometric and Colorimetric Correction. In Laurent Lucas, Celine Loscos, and Yannick Remion, editors, *3D Video*, pages 91–112. Wiley, December 2013.

[ACO12] **Jean Serra**, Corinne Vachier, and Fernand Meyer. Chapter 8 - Levelings. In **Laurent Najman** and **Hugues Talbot**, editors, *Mathematical Morphology : From Theory to Applications*, pages 199–228. Wiley, 2013. Online ISBN : 9781118600788.

3 Colloques / congrès, séminaires de recherche

3.1 Éditions d'actes de colloques / congrès

[AEA1] Jon Atli Benediktsson, Jocelyn Chanussot, **Hugues Talbot**, and **Laurent Najman**. *Mathematical Morphology and Its Applications to Signal and Image Processing*, volume 9082 of *Lecture Notes in Computer Science*. Springer, Reykjavik, Iceland, May 2015.

[AEA2] **Laurent Najman** and Pascal Romon. *Discrete curvature : theory and applications*, volume 3 of *Actes des rencontres du CIRM*. CEDRAM, France, December 2014.

3.2 Articles publiés dans conférences internationales

[AC1] Francisco Javier Alvarez Padilla, Eloïse Grossiord, Barbara Romaniuk, Benoît Naegel, Camille Kurtz, **Hugues Talbot**, **Laurent Najman**, Romain Guillemot, Dimitri Papathanassiou, and Nicolas Passat. Multicriteria 3D PET image segmentation. In *Image Processing Theory, Tools and Applications (IPTA)*. IEEE, 2015.

[AC2] Daniel Antunes, Claire Mathieu, and **Nabil Mustafa**. Combinatorics of Local Search : An Optimal 4-Local Hall's Theorem for Planar Graphs. In *25th Annual European Symposium on Algorithms (ESA 2017)*, 25th Annual European Symposium on Algorithms (ESA 2017), 2017.

[AC3] Ignacio Araya, Gilles Trombettoni, **Bertrand Neveu**, and Gilles Chabert. Extraction de régions intérieures pour améliorer le majorant en optimisation globale sous contraintes. In *JFPC 2013*, 2013.

[AC4] **Mathieu Aubry** and Bryan Russell. Understanding deep features with computer-generated imagery. In *ICCV*, 2015.

[AC5] Nicolas Audebert, Alexandre Boulch, Hicham Randrianarivo, Bertrand Le Saux, Marin Ferecatu, Sébastien Lefèvre, and **Renaud Marlet**. Deep learning for urban remote sensing. In *Joint Urban Remote Sensing Event (JURSE)*, 2017.

[AC6] Nejmeddine Bahri, Nidhameddine Belhadj, Med Ali Ben Ayed, Nouri Masmoudi, **Thierry Grandpierre**, and **Mohamed Akil**. Real-time H264/AVC high definition video encoder on

a multicore DSP TMS320C6678. In *2015 International Conference on Computer Vision and Image Analysis Applications (ICCVIA)*, Computer Vision and Image Analysis Applications (ICCVIA), 2015 International Conference on. IEEE, 2015.

[AC7] Nejmeddine Bahri, **Thierry Grandpierre**, Med Ali Ben Ayed, Nouri Masmoudi, and **Mohamed Akil**. GOP level parallelism implementation for real-time H264/AVC video encoder on multicore DSP TMS320C6472. In *2014 6th European Embedded Design in Education and Research Conference (EDERC)*, Education and Research Conference (EDERC), 2014 6th European Embedded Design in. IEEE, 2014.

[AC8] Nejmeddine Bahri, **Thierry Grandpierre**, Mohamed Ali ben ayed, Nouri Masmoudi, and **Mohamed Akil**. GOP level parallelism implementation for real-time H264/AVC video encoder on multicore DSP TMS320C6472. In *EDERC 2014*, Proceedings of the 6th European Embedded Design Education and Research Conference, pages 152–156. IEEE, EURASIP, 2014.

[AC9] Nejmeddine Bahri, **Thierry Grandpierre**, Nouri Masmoudi, and **Mohamed Akil**. Optimisations structurelles et matérielles de l'encodeur vidéo H264/AVC sur un seul coeur d'un DSP multicoeurs TMS320C6472. In *gretsi*, GRETSI 2013 (Symposium on Signal and Image Processing), 2013.

[AC10] Nejmeddine Bahri, **Thierry Grandpierre**, Nouri Masmoudi, and **Mohamed Akil**. Optimisations structurelles et matérielles de l'encodeur vidéo H264/AVC sur un seul coeur d'un DSP multicoeurs TMS320C6472. In *GRETSI 2013 (Symposium on Signal and Image Processing)*, 2013.

[AC11] Clara Barbanson, Andrés Almansa, Yann Ferrec, and **Pascal Monasse**. Relief Computation from Images of a Fourier Transform Spectrometer for Interferogram Correction. In *OSA Light, Energy and the Environment Congress*, Fourier Transform Spectroscopy. OSA, 2016.

[AC12] mohamad amin ben atitallah, Anis Boudabous, Ahmed Ben Atitallah, and **Rostom Kachouri**. Complexity study of the Gamma correction method for text extraction from complex images. In *STA : International conference on Sciences and Techniques of Automatic control & computer engineering*, 2015.

[AC13] Syrine Ben Driss, M Soua, **Rostom Kachouri**, and **Mohamed Akil**. A comparison study between MLP and Convolutional Neural Network models for character recognition. In *SPIE Conference on Real-Time Image and Video Processing*, volume 10223 of *Real-Time Image and Video Processing 2017*, 2017.

[AC14] Sofien Ben Sayadia, Yaroub Elloumi, **Mohamed Akil**, and Mohamed Hedibedoui. Computational Efficiency of Optic Disk Detection on Fundus Image : A survey. In *SPIE Real-Time Image and Video Processing*, 2018.

[AC15] **Gilles Bertrand**. New Structures Based on Completions. In *Discrete Geometry for Computer Imagery*, volume 7749 of *Lecture notes in computer science*, pages 83–94. Springer, 2013.

[AC16] **Gilles Bertrand**. Completions and simple homotopy. In *Discrete Geometry for Computer Imagery (DGCI 2014)*, pages 63–74, 2014.

[AC17] Alexandre Boulch and **Renaud Marlet**. Statistical Criteria for Shape Fusion and Selection. In *International Conference on Pattern Recognition*, 2014.

[AC18] Amine Bourki, **Martin de La Gorce**, **Renaud Marlet**, and **Nikos Komodakis**. Patchwork Stereo : Scalable, Structure-Aware 3D Reconstruction in Man-Made Environments. In *IEEE Winter Conference on Applications of Computer Vision (WACV 2017)*, pages 292–301, 2017.

[AC19] Nicolas Boutry, Thierry Géraud, and **Laurent Najman**. On making nD images well-composed by a self-dual local interpolation. In *18th IAPR International Conference, DGCI 2014*, volume 8668 of *Lecture Notes in Computer Science*, pages 320–331. Springer International Publishing, 2014.

[AC20] Nicolas Boutry, Thierry Géraud, and **Laurent Najman**. How to Make nD Functions Digitally Well-Composed in a Self-dual Way. In *Mathematical Morphology and Its Applications to Signal and Image Processing*, volume 9082 of *Lecture Note In Computer Sciences*, pages 561–572. Benediktsson, J.A. and Chanussot, J. and Najman, L. and Talbot, H., 2015.

[AC21] Nicolas Boutry, Thierry Géraud, and **Laurent Najman**. How to make nD images Well-composed without interpolation. In *International Conference on Image Processing (ICIP)*. IEEE, 2015.

[AC22] Nicolas Boutry, **Laurent Najman**, and Thierry Géraud. Well-Composedness in Alexandrov Spaces Implies Digital Well-Composedness in $\mathbb{Z}^n$. In *20th International Conference on Discrete Geometry for Computer Imagery (DGCI 2017)*, volume 10502 of *Discrete Geometry for Computer Imagery 20th IAPR International Conference, DGCI 2017, Vienna, Austria, September 19 – 21, 2017, Proceedings*, pages 225–237, 2017.

[AC23] Nicolas Boutry, **Laurent Najman**, and Thierry Géraud. Well-composedness in Alexandrov spaces implies digital well-composedness in $\mathbb{Z}^n$. In *20th IAPR International Conference on Discrete Geometry for Computer Imagery (DGCI)*, 2017.

[AC24] Yosra Braham, **Mohamed Akil**, and Mohamed Hédi Bedoui. Parallel implementation of a watershed algorithm on shared memory multicore architecture. In *Ninth International Conference on Machine Vision*, 2016.

[AC25] Stéphane Breuils, **Vincent Nozick**, Laurent Fuchs, Dietmar Hildenbrand, Werner Benger, and Christian Steinmetz. A hybrid approach for computing products of high-dimensional geometric algebras. In *CGI / ENGAGE 2017*, CGI '17 Proceedings of the Computer Graphics International Conference, pages 1 – 6, 2017.

[AC26] Norbert Bus, Shashwat Garg, **Nabil Mustafa**, and Saurabh Ray. Improved Local Search for Geometric Hitting Set. In *Proc. of the 32st International Symposium on Theoretical Aspects of Computer Science (STACS)*, 2015.

[AC27] Norbert Bus, **Nabil Mustafa**, and **Venceslas Biri**. IlluminationCut. In *Eurographics (EG 2015)*, pages 561–574, 2015.

[AC28] Norbert Bus, **Nabil Mustafa**, and Saurabh Ray. Geometric Hitting Sets for Disks : Theory and Practice. In *23rd European Symposium on Algorithms (ESA 2015)*, 2015.

[AC29] Juan-Pablo Cares, Maria Cristina Riff, and **Bertrand Neveu**. GeneRa : A Benchmarks Generator for RadiotherapyTreatment Scheduling Problems. In *Learning and Intelligent OptimizatioN Conference LION 8*, volume LNCS 8426 of *Learning and Intelligent Optimization*, pages 353–361. Springer, 2014.

[AC30] Edwin Carlinet and Thierry Géraud. A Comparison of Many Max-tree Computation Algorithms. In *11th International Symposium on Mathematical Morphology (ISMM)*, pages 73 – 85, 2013.

[AC31] Edwin Carlinet and Thierry Géraud. A Color Tree of Shapes with Illustrations on Filtering, Simplification, and Segmentation. In *12th International Symposium on Mathematical Morphology (ISMM)*, pages 363 – 374, 2017.

[AC32] Edwin Carlinet and Thierry Géraud. Getting a morphological tree of shapes for multivariate images : Paths, traps, and pitfalls. In *21st IEEE International Conference on Image Processing (ICIP)*, pages 615 – 619, 2017.

[AC33] Gabriele Cavallaro, Mauro Dalla Mura, <u>Edwin Carlinet</u>, Thierry Géraud, Nicola Falco, and Jón Atli Benediktsson. Region-based classification of remote sensing images with the morphological tree of shapes. In *2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)* , pages 5087 – 5090, 2016.

[AC34] <u>Edward Jorge Yuri Cayllahua Cahuina</u>, **Jean Cousty**, **Yukiko Kenmochi**, Arnaldo De Albuquerque Araujo, and Guillermo Cámara-Chávez. Algorithms for hierarchical segmentation based on the Felzenszwalb-Huttenlocher dissimilarity. In *International Conference on Pattern Recognition and Artificial Intelligence*, 2018.

[AC35] Aditya Challa, Sravan Danda, B S Daya Sagar, and **Laurent Najman**. An Introduction to Gamma-Convergence for Spectral Clustering. In *Discrete Geometry for Computer Imagery*, volume 10502 of *Lecture Note In Computer Sciences*, pages 185–196. Kropatsch, Walter G. and Artner, Nicole M. and Janusch, Ines, Springer, 2017.

[AC36] Aditya Challa, Sravan Danda, B S Daya Sagar, and **Laurent Najman**. POWER SPECTRAL CLUSTERING ON HYPERSPECTRAL DATA. In *International Geoscience and Remote Sensing Symposium*. IEEE, 2017.

[AC37] Antonin Chambolle, **Pascal Monasse**, and Pauline Tan. Occlusion Detection in Dense Stereo Estimation with Convex Optimization. In *ICIP'17, IEEE International Conference on Image Processing*, 2017.

[AC38] John Chaussard, <u>Laurent Noël</u>, **Venceslas Biri**, and **Michel Couprie**. A 3D curvilinear skeletonization algorithm with application to path tracing. In *Discrete Geometry for Computer Imagery*, pages 1–12, 2013.

[AC39] **Antoine Chevreuil** and **Philippe Loubaton**. On the detection of low rank matrices in the high-dimensional regime. In *EUSIPCO*, 2018.

[AC40] **Giovanni Chierchia**, Davide Cozzolino, Giovanni Poggi, and Luisa Verdoliva. SAR image despeckling through convolutional neural networks. In *IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2017)*, pages 5438–5441, 2017.

[AC41] <u>Takwa Chihaoui</u>, Hejer Jlassi, **Rostom Kachouri**, Kamel Hamrouni, and **Mohamed Akil**. Personal verification system based on retina and SURF descriptors. In *13th IEEE International Multi-Conference on Systems, Signals & Devices (SSD 2016)*, 2016.

[AC42] <u>Takwa Chihaoui</u>, **Rostom Kachouri**, Hejer Jlassi, **Mohamed Akil**, and Kamel Hamrouni. Human identification system based on the detection of optical Disc Ring in retinal images. In *International Conference on Image Processing Theory, Tools and Applications (IPTA 2015)*, pages 263–267, 2015.

[AC43] <u>Takwa Chihaoui</u>, **Rostom Kachouri**, Hejer Jlassi, **Mohamed Akil**, and Kamel Hamrouni. L'extraction d'un anneau d'interet autour de disque optique pour une identification rétinienne robuste. In *ERIS'2016 Eye-tracking, Regard, Interactions et Suppléances*, 2016.

[AC44] **Emilie Chouzenoux**, Fiona Zolyniak, Emmanuelle Gouillart, and **Hugues Talbot**. A Majorize-Minimize memory gradient algorithm applied to X-ray tomography. In *International Conference on Tomography of Materials and Structures*, 2013.

[AC45] François Cokelaer, Mauro Dalla Mura, **Hugues Talbot**, and Jocelyn Chanussot. Selective and robust d-dimensional path operators. In *21st IEEE International Conference on Image Processing (ICIP 2014)*, pages 4767–4771, 2014.

[AC46] <u>Bruno Conejo</u>, **Nikos Komodakis**, Sebastien Leprince, and Jean-Philippe Avouac. Inference by Learning : Speeding-up Graphical Model Optimization via a Coarse-to-Fine Cascade of Pruning Classifiers. In *NIPS*, 2014.

[AC47] Bruno Conejo, S. Leprince, F. Ayoub, and Jean-Philippe Avouac. Fast global stereo matching via energy pyramid minimization. In *Photogrammetric Computer Vision - PCV2014*, volume 3, pages 41 – 48. ISPRS Technical Commission III Midterm Symposium, 2014.

[AC48] **Mathieu Constant**, Joseph Le Roux, and Nadi Tomeh. Deep Lexical Segmentation and Syntactic Parsing in the Easy-First Dependency Framework. In *NAACL*, 2016.

[AC49] Camille Couprie, Clément Farabet, Yann Lecun, and **Laurent Najman**. Causal graph-based video segmentation. In *International Conference on Image Processing*, pages 1–4, 2013.

[AC50] Camille Couprie, Clément Farabet, **Laurent Najman**, and Yann Lecun. Indoor Semantic Segmentation using depth information. In *First International Conference on Learning Representations (ICLR 2013)*, pages 1–8, 2013.

[AC51] **Michel Couprie** and **Gilles Bertrand**. Isthmus-based Parallel and Asymmetric 3D Thinning Algorithms. In *Discrete Geometry for Computer Imagery*, volume 8668 of *Lecture Notes in Computer Science*, pages 51–62, 2014.

[AC52] **Michel Couprie** and **Gilles Bertrand**. A 3D Sequential Thinning Scheme Based on Critical Kernels. In *International Symposium on Mathematical Morphology*, volume 9082 of *Lecture Notes in Computer Science - Mathematical Morphology and Its Applications to Signal and Image Processing*, pages 549–560. Springer, 2015.

[AC53] **Michel Couprie** and **Gilles Bertrand**. Homotopic thinning in 2D and 3D cubical complexes based on critical kernels. In *19th IAPR international conference on Discrete Geometry for Computer Imagery (DGCI 2016)*, volume 9647 of *Discrete Geometry for Computer Imagery 19th IAPR International Conference, DGCI 2016, Nantes, France, April 18-20, 2016. Proceedings*, pages 131–142. Springer, 2016.

[AC54] **Michel Couprie**, Francisco Nivando Bezerra, and **Gilles Bertrand**. A Parallel Thinning Algorithm for Grayscale Images. In *Discrete Geometry for Computer Imagery*, volume 7749 of *Lecture notes in computer science*, pages 71–82. Springer, 2013.

[AC55] **Jean Cousty** and **Laurent Najman**. Morphological Floodings and Optimal Cuts in Hierarchies. In *International Conference on Image Processing (ICIP)*, 2014.

[AC56] **Jean Cousty**, **Laurent Najman**, **Yukiko Kenmochi**, and Silvio Guimarães. New characterizations of minimum spanning trees and of saliency maps based on quasi-flat zones. In *12th International Symposium on Mathematical Morphology (ISMM)*, volume 9082 of *Mathematical Morphology and Its Applications to Signal and Image Processing*, pages 205–216. Benediktsson, J.A.; Chanussot, J.; Najman, L.; Talbot,, 2015.

[AC57] **Jean Cousty**, **Laurent Najman**, and **Benjamin Perret**. Constructive links between some morphological hierarchies on edge-weighted graphs. In *International Symposium on Mathematical Morphology*, volume 7883 of *Lecture Notes in Computer Science*, pages 85–96. Springer, 2013.

[AC58] Sravan Danda, Aditya Challa, B S Daya Sagar, and **Laurent Najman**. Power Tree Filter : A Theoretical Framework Linking Shortest Path Filters and Minimum Spanning Tree Filters. In *Mathematical Morphology and Its Applications to Signal and Image Processing*, volume 10225 of *Lecture Note In Computer Sciences*, pages 199–210. Springer, 2017.

[AC59] Kleber Jacques De Souza, Arnaldo Albuquerque de Araújo, Zenilton Kleber G. do Patricio Jr., **Jean Cousty**, **Laurent Najman**, **Yukiko Kenmochi**, and Silvio Jamil F Guimarães. Hierarchical video segmentation using an observation scale. In *26th SIBRAPI Conference on Graphics, Patterns and Images - SIPGRAPI 2013*, Graphics, Patterns and Images (SIBGRAPI), 2013 26th SIBGRAPI - Conference on, 2013.

[AC60] Fabio Dias, Moussa R Mansour, Paola R Valdivia, **Jean Cousty**, and **Laurent Najman**. Watersheds on Hypergraphs for Data Clustering. In *ISMM 2017 - 13th International Symposium on Mathematical Morphology and Its Applications to Signal and Image Processing*, volume 10225 of *Lecture Note In Computer Sciences*, pages 211–221. Springer, 2017.

[AC61] Alice Dufour, Christian Ronse, Joseph Baruthio, Olena Tankyevych, **Hugues Talbot**, and Nicolas Passat. Morphology-based cerebrovascular atlas. In *International Symposium on Biomedical Imaging (ISBI)*, pages 1210–1214. IEEE, 2013.

[AC62] Kunal Dutta, Arijit Ghosh, Bruno Jartoux, and **Nabil Mustafa**. Shallow packings, semialgebraic set systems, Macbeath regions and polynomial partitioning. In *33rd International Symposium on Computational Geometry (SoCG 2017)*, 2017.

[AC63] Yaroub Elloumi and **Mohamed Akil**. Computationally Efficient Blood Vessels Segmentation in Fundus Image on Shared Memory Parallel Machines. In *SPIE Real-Time Image and Video Processing*, 2018.

[AC64] Yaroub Elloumi, **Mohamed Akil**, and Mohamed Hedi Bedoui. Execution Time and Code Size Optimization using Multidimensional Retiming and Loop Striping. In *EUROMICRO Conference on Digital System Design*, 2013.

[AC65] Yaroub Elloumi, **Mohamed Akil**, and Mohamed Hedi Bedoui. WCET Nested-Loop Minimization in Terms of Instruction-Level-Parallelism. In *International Conference on High Performance Computing & Simulation (HPCS)*, 2015.

[AC66] Ferran Espuny and **Pascal Monasse**. Singular Vector Methods for Fundamental Matrix Computation. In *PSIVT*, volume 8333 of *Lecture Notes in Computer Science*, pages 290–301. Springer, 2013.

[AC67] Ferran Espuny, **Pascal Monasse**, and Lionel Moisan. A New A Contrario Approach for the Robust Determination of the Fundamental Matrix. In *Pacific-Rim Symposium on Image and Video Technology (PSIVT 2013)*, pages 181–192, 2013.

[AC68] Gabriele Facciolo, Carlo de Franchis, and Enric Meinhardt. MGM : A Significantly More Global Matching for Stereovision. In *BMVC 2015*, 2015.

[AC69] Vadim Fedorov, Pablo Arias, Gabriele Facciolo, and Coloma Ballester. Affine Invariant Self-Similarity for Exemplar-Based Inpainting. In *VISAPP*, 2016.

[AC70] Aniello Fiengo, **Giovanni Chierchia**, Marco Cagnazzo, and Béatrice Pesquet-Popescu. Convex optimization for frame-level rate allocation in MV-HEVC. In *IEEE International Conference on Image Processing (ICIP 2016)*, pages 2157–2161, 2016.

[AC71] Marion Foare, Jacques-Olivier Lachaud, and **Hugues Talbot**. Image restoration and segmentation using the Ambrosio-Tortorelli functional and discrete calculus . In *International Conference on Pattern Recognition (ICPR 2016)*, 2016.

[AC72] Huan Fu, Mingming Gong, **Chaohui Wang**, Kayhan Batmanghelich, and Dacheng Tao. Deep ordinal regression network for monocular depth estimation. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2018)*, 2018.

[AC73] Huan Fu, **Chaohui Wang**, Dacheng Tao, and Michael J Black. Occlusion boundary detection via deep exploration of context. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2016)*, pages 241 – 250, 2016.

[AC74] Raghudeep Gadde, Varun Jampani, Martin Kiefel, Daniel Kappler, and Peter Gehler. Superpixel Convolutional Networks Using Bilateral Inceptions. In *European Conference on Computer Vision (ECCV)*, European Conference on Computer Vision (ECCV). Springer, 2016.

[AC75] Thierry Géraud, Edwin Carlinet, and Sébastien Crozet. Self-duality and Digital Topology : Links Between the Morphological Tree of Shapes and Well-Composed Gray-Level Images. In *12th International Symposium on Mathematical Morphology (ISMM*, pages 573 – 584, 2017.

[AC76] Thierry Géraud, Edwin Carlinet, Sébastien Crozet, and **Laurent Najman**. A quasi-linear algorithm to compute the tree of shapes of n-D images. In *International Symposium on Mathematical Morphology*, volume 7883 of *Lecture Notes in Computer Science*, pages 97–108. Springer, 2013.

[AC77] Thierry Géraud, Yongchao Xu, Edwin Carlinet, and Nicolas Boutry. Introducing the Dahu Pseudo-Distance. In *13th International Symposium on Mathematical Morphology (ISMM)*, 2017.

[AC78] Spyros Gidaris and **Nikos Komodakis**. Object detection via a multi-region & semantic segmentation-aware CNN model. In *IEEE International Conference on Computer Vision (ICCV 2015)*, pages 1134–1142. IEEE Computer Society, 2015.

[AC79] Spyros Gidaris and **Nikos Komodakis**. Detect, Replace, Refine : Deep Structured Prediction for Pixel Wise Labeling. In *2017 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. IEEE, 2017.

[AC80] Spyros Gidaris and **Nikos Komodakis**. Dynamic Few-Shot Visual Learning without Forgetting Spyros Gidaris. In *IEEE conference on Computer Vision and Pattern Recognition*, 2018.

[AC81] Edouard Grave, **Guillaume Obozinski**, and Francis Bach. Hidden Markov tree models for semantic class induction. In *CoNLL - Seventeenth Conference on Computational Natural Language Learning*, 2013.

[AC82] Edouard Grave, **Guillaume Obozinski**, and Francis Bach. A Markovian approach to distributional semantics with application to semantic compositionality. In *International Conference on Computational Linguistics (Coling)*, pages 1447 – 1456. International Committee on Computational Linguistics (ICCL), 2014.

[AC83] Eloïse Grossiord, Benoît Naegel, **Hugues Talbot**, Nicolas Passat, and **Laurent Najman**. Shape-based analysis on component-graphs for multivalued image processing. In *International Symposium on Mathematical Morphology (ISMM)*, volume 9082 of *Lecture Note In Computer Sciences*, pages 446–457. Springer, 2015.

[AC84] Eloïse Grossiord, **Hugues Talbot**, Nicolas Passat, Michel Meignan, and **Laurent Najman**. Automated 3D lymphoma lesion segmentation from PET/CT characteristics. In *International Symposium on Biomedical Imaging (ISBI)*, pages 174–178. IEEE, 2017.

[AC85] Eloïse Grossiord, **Hugues Talbot**, Nicolas Passat, Michel Meignan, Pierre Tervé, and **Laurent Najman**. Hierarchies and shape-space for PET image segmentation. In *International Symposium on Biomedical Imaging (ISBI)*, pages 1118–1121. IEEE, 2015.

[AC86] Thibault Groueix, Matthew Fisher, Vladimir G. Kim, Bryan Russell, and **Mathieu Aubry**. AtlasNet : A Papier-Mâché Approach to Learning 3D Surface Generation. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2018)*, 2018.

[AC87] Thibault Groueix, Matthew Fisher, Vladimir G Kim, Bryan Russell, and **Mathieu Aubry**. Shape correspondences from learnt template-based parametrization. In *15th European Conference on Computer Vision ECCV 2018*, 2018.

[AC88] Silvio Jamil F. Guimarães, Zenilton Kleber G. do Patrocinio, **Yukiko Kenmochi**, **Jean Cousty**, and **Laurent Najman**. Hierarchical image segmentation relying on a likelihood ratio test. In *ICIAP 2015*, volume LNCS of *Image Analysis and Processing - ICIAP 2015*. Springer, 2015.

[AC89] Adrien Herubel, **Venceslas Biri**, and Stéphane Deverly. Autonomous Lighting Agents in Photon Mapping. In *ISVC 2009*, volume 5876 of *Lecture Notes in Computer Science*, pages 919–928. springer, 2013.

[AC90] Shell Xu Hu and **Guillaume Obozinski**. SDCA-Powered Inexact Dual Augmented Lagrangian Method for Fast CRF Learning. In *International Conference on Artificial Intelligence and Statistics (AISTATS 2018)*, 2018.

[AC91] Ali Isavudeen, **Eva Dokladalova**, Nicolas Ngan, and **Mohamed Akil**. Self-Adaptive Architecture for Multi-sensor Embedded Vision System. In *MEMICS'15*. Kofroň, Jan, Vojnar, Tomáš, 2015.

[AC92] Ali Isavudeen, Nicolas Ngan, **Eva Dokladalova**, and **Mohamed Akil**. Auto-Adaptive Multi-Sensor Architecture. In *IEEE International symposium on circuits and systems, ISCAS 2016*. IEEE, 2016.

[AC93] Ali Isavudeen, Nicolas Ngan, **Eva Dokladalova**, and **Mohamed Akil**. Highly Scalable Monitoring System on Chip for Multi-Stream Auto-Adaptable Vision System. In *International Conference on Research in Adaptive and Convergent Systems*, Proceedings of the International Conference on Research in Adaptive and Convergent Systems, pages Pages 249–254. ACM New York, 2017.

[AC94] Ali Isavudeen, Nicolas Ngan, Eva DOKLADALOVA, and **Mohamed Akil**. Highly Scalable Monitoring System on Chip for Multi-Stream Auto-Adaptable Vision System. In *Research in Adaptive and Convergent Systems 2017, RACS 2017*, ACM Proceedings Research in Adaptive and Convergent Systems 2017. ACM SIGAPP, ACM, 2017.

[AC95] Varun Jampani, Raghudeep Gadde, and Peter Gehler. Efficient Facade Segmentation Using Auto-context. In *2015 IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2015 IEEE Winter Conference on Applications of Computer Vision (WACV). IEEE, 2015.

[AC96] Clara Jaquet, Edward Andò, Gioacchino Viggiani, and **Hugues Talbot**. Estimation of Separating Planes between Touching 3D Objects Using Power Watershed. In *11th International Symposium on Mathematical Morphology and Its Applications to Signal and Image Processing (ISMM 2013)*, volume 7883 of *Mathematical Morphology and Its Applications to Signal and Image Processing*, pages 452–463. Springer, 2013.

[AC97] Bruno Jartoux and **Nabil Mustafa**. Optimality of Geometric Local Search. In *34th International Symposium on Computational Geometry (SoCG 2018)*, 2018.

[AC98] Stéphanie Jehan-Besson, C Tilmant, A De Cesare, A Lalande, A Cochet, **Jean Cousty**, J Lebenberg, M Lefort, P Clarysse, Régis Clouard, **Laurent Najman**, L Sarry, F Frouin, and M Garreau. A mutual reference shape based on information theory. In *International Conference on Image Processing ICIP*, pages 887 – 891, 2014.

[AC99] Anna Jezierska, Olivia Miraucourt, **Hugues Talbot**, Stéphanie Salmon, and Nicolas Passat. A non-local Chan-Vese model for sparse, tubular object segmentation. In *International Conference on Image Processing (ICIP)*, Image Processing (ICIP), 2014 IEEE International Conference on, pages 907–911. IEEE, 2014.

[AC100] Anna Jezierska, **Jean-Christophe Pesquet**, **Hugues Talbot**, and Caroline Chaux. Iterative Poisson-Gaussian Noise Parametric Estimation for Blind Image Denoising. In *IEEE International Conference on Image Processing*, pages 1–5, 2014.

[AC101] Laura F Julià and **Pascal Monasse**. A Critical Review of the Trifocal Tensor Estimation. In *PSIVT'17, The Eighth Pacific-Rim Symposium on Image and Video Technology*, 2017.

[AC102] Thibault Julliand, **Vincent Nozick**, and **Hugues Talbot**. Automatic image splicing detection based on noise density analysis in raw images. In *International Conference of Advanced Concepts for Intelligent Vision Systems (ACIVS 2016)*, pages 126 – 134, 2016.

[AC103] Thibaut Julliand, **Vincent Nozick**, and **Hugues Talbot**. Automated Image Splicing Detection from Noise Estimation in Raw Images. In *6th International Conference on Imaging for Crime Prevention and Detection*, pages 13–18, 2015.

[AC104] **Rostom Kachouri** and **Mohamed Akil**. Hardware design to accelerate PNG encoder for binary mask compression on FPGA. In *SPIE 9400, Real-Time Image and Video Processing*, 2015.

[AC105] **Rostom Kachouri**, Christian Medina Armas, and **Mohamed Akil**. Gamma correction acceleration for real-time text extraction from complex colored images. In *IEEE International Conference on Image Processing (ICIP 2015)*, 2015.

[AC106] **Rostom Kachouri**, Mahmoud Soua, and **Mohamed Akil**. Unsupervised image segmentation based on local pixel clustering and low-level region merging. In *IEEE International Conference on Advanced Technologies for Signal and Image Processing (ATSIP 2016)*, pages 177–182, 2016.

[AC107] Hariprasad Kannan, **Nikos Komodakis**, and **Nikos Paragios**. Newton-type Methods for Inference in Higher-Order Markov Random Fields. In *IEEE International Conference on Computer Vision and Pattern Recognition*, pages 7224 – 7233, 2017.

[AC108] Joerg Kappes, Bjoern Andres, Fred Hamprecht, Christoph Schnörr, Sebastian Nowozin, Dhruv Batra, Sungwoong Kim, Bernhard X Kausler, Jan Lellmann, **Nikos Komodakis**, and Carsten Rother. A Comparative Study of Modern Inference Techniques for Discrete Energy Minimization Problems. In *IEEE Conference on Computer Vision and Pattern Recognition 2013*, pages 1–8, 2013.

[AC109] **Yukiko Kenmochi**, Phuc Ngo, Nicolas Passat, and **Hugues Talbot**. Digital shapes, digital boundaries and rigid transformations : A topological discussion. In *Courbure discrète : théorie et applications* , volume 3 of *Actes des rencontres du CIRM*, pages 195–201. CIRM, 2013.

[AC110] **Yukiko Kenmochi**, Phuc Ngo, **Hugues Talbot**, and Nicolas Passat. Efficient neighbourhood computing for discrete rigid transformation graph search. In *Discrete Geometry for Computer Imagery (DGCI)*, volume 8668 of *Lecture Notes in Computer Science*, pages 99–110. Springer, 2014.

[AC111] Bertrand Kerautret, Phuc Ngo, **Yukiko Kenmochi**, and Antoine Vacavant. Greyscale Image Vectorization from Geometric Digital Contour Representations. In *DGCI'17 - 20th International Conference on Discrete Geometry for Computer Imagery*, volume 34, pages 2379 – 331, 2017.

[AC112] Ibtissem Khouaja, Ibtihel Nouira, Mohamed Hedi Bedoui, and **Mohamed Akil**. Enhancing EEG Surface Resolution by Using a Combination of Kalman Filter and Interpolation method . In *13th Computer Graphics, Imaging and Visualization* , 2016.

[AC113] Bangalore Ravi Kiran and **Jean Serra**. Ground truth energies for hierarchies of segmentations. In *11th International Symposium on Mathematical Morphology ISMM 2013*, volume 7883 of *Lecture Notes in Computer Science*, pages 123–134, 2013.

[AC114] Bangalore Ravi Kiran and **Jean Serra**. Scale Space Operators on Hierarchies of Segmentations. In *Fourth International Conference on Scale Space and Variational Methods in Computer Vision*, volume 7893 of *Lecture Notes in Computer Science*, pages 331–342, 2013.

[AC115] Jacques De Souza Kleber, Arnaldo De Albuquerque Araújo, Zenilton Kleber G. do Parocinio Jr, **Jean Cousty**, **Laurent Najman**, **Yukiko Kenmochi**, and Silvio Jamil F. Guimarães. Decreasing the Number of Features for Improving Human Action Classification. In *29th SIBGRAPI Conference on Graphics, Patterns and Images (SIBGRAPI 2016)*, 2016.

[AC116] Mateusz Koziński, Raghudeep Gadde, Sergey Zagoruyko, **Guillaume Obozinski**, and **Renaud Marlet**. A mrf shape prior for facade parsing with occlusions. In *Conference on Computer Vision and Pattern Recognition (CVPR 2015)*, pages 2820–2828, 2015.

[AC117] Mateusz Kozinski and **Renaud Marlet**. Image parsing with graph grammars and markov random fields applied to facade analysis. In *IEEE Winter Conference on Applications of Computer Vision (WACV 2014)*, pages 729–736, 2014.

[AC118] Mateusz Koziński, **Guillaume Obozinski**, and **Renaud Marlet**. Beyond Procedural Facade Parsing : Bidirectional Alignment via Linear Programming. In *2014 Asian Conference on Computer Vision (ACCV)*, volume 9006 of *Computer Vision – ACCV 2014 12th Asian Conference on Computer Vision, Singapore, Singapore, November 1-5, 2014, Revised Selected Papers*, pages 79–94. Springer, 2014.

[AC119] Loic Landrieu and Simonovsky Martin. Large-scale Point Cloud Semantic Segmentation with Superpoint Graphs. In *2018 IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2018)*, 2018.

[AC120] Loic Landrieu and **Guillaume Obozinski**. Continuously indexed Potts models on unoriented graphs. In *UAI 20114 - 30th Conference on Uncertainty in Artificial Intelligence*, pages 459–468, 2014.

[AC121] Loic Landrieu and **Guillaume Obozinski**. Cut Pursuit : fast algorithms to learn piecewise constant functions. In *19th International Conference on Artificial Intelligence and Statistics (AISTATS 2016)* , 2016.

[AC122] Alain Lebret, **Yukiko Kenmochi**, Jérôme Hodel, Alain Rahmouni, Philippe Decq, and Eric Petit. Relief map of the upper cortical subarachnoid space. In *27th International Congress and Exhibition of Computer Assisted Radiology and Surgery*, volume 8, pages s282–s284. Springer, 2013.

[AC123] Roland Levillain, Thierry Géraud, **Laurent Najman**, and Edwin Carlinet. Practical Genericity : Writing Image Processing Algorithms Both Reusable and Efficient. In *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications*, volume 8827 of *Lecture Notes in Computer Science*, pages 70 – 79. Bayro-Corrochano, Eduardo and Hancock, Edwin, Springer, 2014.

[AC124] Zhe Liu, **Pascal Monasse**, and **Renaud Marlet**. Match selection and refinement for highly accurate two-view structure from motion. In *European Conference on Computer Vision (ECCV 2014)*, pages 818–833, 2014.

[AC125] Deise S Maia, Arnaldo De A Araujo, Jean S Cousty, **Laurent Najman**, **Benjamin Perret**, and **Hugues Talbot**. Evaluation of combinations of watershed hierarchies. In *International Symposium on Mathematical Morphology*, 2017.

[AC126] Diego Marcos, Michele Volpi, **Nikos Komodakis**, and Devis Tuia. Rotation Equivariant Vector Field Networks. In *2017 IEEE International Conference on Computer Vision (ICCV)*. IEEE, 2017.

[AC127] Maxime Maria, **Nabil Mustafa**, Thomas Bardoux, Jérémie Defaye, and **Venceslas Biri**. Visibility based WSPD for Global Illumination. In *13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2018)*, volume 1 of *GRAPP*, pages 81–90, 2018.

[AC128] Simonovsky Martin and **Nikos Komodakis**. OnionNet : Sharing Features in Cascaded Deep Classifiers . In *27th British Machine Vision Conference (BMVC)*, 2016.

[AC129] Francisco Massa, **Renaud Marlet**, and **Mathieu Aubry**. Crafting a multi-task CNN for viewpoint estimation. In *British Machine Vision Conference (BMVC 2016)*, 2016.

[AC130] Francisco Massa, Bryan Russell, and **Mathieu Aubry**. Deep exemplar 2d-3d detection by adapting from real to rendered views. In *2016 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Computer Vision and Pattern Recognition (CVPR), 2016 IEEE Conference on. IEEE, 2016.

[AC131] Laurent Mennillo, **Jean Cousty**, and **Laurent Najman**. A Comparison of Some Morphological Filters for Improving OCR Performance. In *Mathematical Morphology and Its Applications to Signal and Image Processing*. Benediktsson, J.A. and Chanussot, J. and Najman, L. and Talbot, H., 2015.

[AC132] Odyssée Merveille, Olivia Miraucourt, Stéphanie Salmon, Nicolas Passat, and **Hugues Talbot**. A variational model for thin structure segmentation based on a directional regularization. In *International Conference on Image Processing (ICIP)*, pages 4324–4328. IEEE, 2016.

[AC133] Odyssée Merveille, Olivia Miraucourt, Stéphanie Salmon, Nicolas Passat, and **Hugues Talbot**. Régularisation directionnelle pour la segmentation de structures curvilignes. In *GRETSI*, 2017.

[AC134] Odyssée Merveille, **Hugues Talbot**, **Laurent Najman**, and Nicolas Passat. Tubular structure filtering by ranking orientation responses of path operators. In *European Conference on Computer Vision (ECCV)*, volume 8690 of *Lecture Notes in Computer Science*, pages 203–218. Springer, 2014.

[AC135] Odyssée Merveille, **Hugues Talbot**, **Laurent Najman**, and Nicolas Passat. Ranking orientation responses of path operators : Motivations, choices and algorithmics. In *International Symposium on Mathematical Morphology (ISMM)*, volume 9082 of *Lecture Note In Computer Sciences*, pages 633–644. Springer, 2015.

[AC136] Son Minh Phan, **Yukiko Kenmochi**, Akihiro Sugimoto, **Hugues Talbot**, Eric Andres, and Rita Zrour. Efficient Robust Digital Annulus Fitting with Bounded Error. In *17th IAPR International Conference on Discrete Geometry for Computer Imagery*, volume 7749 of *Lecture Notes in Computer Science*, pages 253–264, 2013.

[AC137] Olivia Miraucourt, Olivier Génevaux, Marcela SZOPOS, Marc Thiriet, **Hugues Talbot**, Stéphanie Salmon, and Nicolas Passat. 3D CFD in complex vascular systems : A case study. In *International Symposium on Biomedical Simulation (ISBMS)*, volume 8789 of *Biomedical Simulation 6th International Symposium, ISBMS 2014, Strasbourg, France, October 16-17, 2014. Proceedings*, pages 86–94. Springer, 2014.

[AC138] Olivia Miraucourt, Anna Jezierska, **Hugues Talbot**, Stéphanie Salmon, and Nicolas Passat. Variational method combined with Frangi vesselness for tubular object segmentation. In *Computational & Mathematical Biomedical Engineering (CMBE)*, pages 485–488, 2015.

[AC139] Pierre Moulon, Bruno Duisit, and **Pascal Monasse**. Global Multiple-View Color Consistency. In *CVMP*, page to appear, 2013.

[AC140] Pierre Moulon, **Pascal Monasse**, and **Renaud Marlet**. Global fusion of relative motions for robust, accurate and scalable structure from motion. In *IEEE International Conference on Computer Vision (ICCV 2013)*, pages 3248–3255, 2013.

[AC141] Pierre Moulon, **Pascal Monasse**, and **Renaud Marlet**. La bibliothèque openMVG : open source Multiple View Geometry. In *Orasis, Congrès des jeunes chercheurs en vision par ordinateur*, 2013.

[AC142] **Nabil Mustafa** and Janos Pach. On the Zarankiewicz Problem for Intersection Hypergraphs. In *Proc. of the 23rd International Symposium on Graph Drawing and Network Visualization (GD '15)*, 2015.

[AC143] **Nabil Mustafa**, Rajiv Raman, and Saurabh Ray. Settling the APX-Hardness Status for Geometric Set Cover. In *Proc. of the 55th Annual Symposium on Foundations of Computer Science (FOCS)*, 2014.

[AC144] **Nabil Mustafa** and Saurabh Ray. Near-Optimal Generalisations of a Theorem of Macbeath. In *Proc. of the 31st International Symposium on Theoretical Aspects of Computer Science (STACS '14), 2014.*, pages 578–589, 2014.

[AC145] **Laurent Najman**, **Jean Cousty**, and **Benjamin Perret**. Playing with Kruskal : algorithms for morphological trees in edge-weighted graphs. In *International Symposium on Mathematical Morphology*, volume 7883 of *Lecture Notes in Computer Science*, pages 135–146. Springer, 2013.

[AC146] **Laurent Najman** and Thierry Géraud. Discrete set-valued continuity and interpolation. In *International Symposium on Mathematical Morphology*, volume 7883 of *Lecture Notes in Computer Science*, pages 37–48. Springer, 2013.

[AC147] **Laurent Najman**, **Jean-Christophe Pesquet**, and **Hugues Talbot**. When Convex Analysis Meets Mathematical Morphology on Graphs. In *Mathematical Morphology and Its Applications to Signal and Image Processing*, volume 9082 of *Lecture Note In Computer Sciences*, pages 473–484. Benediktsson, J.A. and Chanussot, J. and Najman, L. and Talbot, H., Springer, 2015.

[AC148] **Bertrand Neveu**, **Martin De La Gorce**, and Gilles Trombettoni. Improving a constraint programming approach for parameter estimation. In *IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2015)*, pages 852–859, 2015.

[AC149] **Bertrand Neveu**, **Martin De La Gorce**, and Gilles Trombettoni. Améliorations d'une approche de programmation par contraintes pour l'estimation de paramètres. In *Journées Francophones de Programmation par Contraintes 2016*, 2016.

[AC150] **Bertrand Neveu** and Gilles Trombettoni. Adaptive Constructive Interval Disjunction. In *ICTAI : International Conference on Tools with Artificial Intelligence*, pages 900–906, 2013.

[AC151] **Bertrand Neveu** and Gilles Trombettoni. ACID : Disjonction constructive adaptative sur intervalles. In *Dixièmes Journées Francophones de Programmation par Contraintes (JFPC 2014)*, 2014.

[AC152] **Bertrand Neveu**, Gilles Trombettoni, and Ignacio Araya. Choix de noeud dans un algorithme de Branch and Bound sur intervalles. In *Onzièmes Journées Francophones de Programmation par Contraintes*, 2015.

[AC153] Phuc Ngo, **Yukiko Kenmochi**, Isabelle Debled-Rennesson, and Nicolas Passat. Convexity-preserving rigid motions of 2D digital objects. In *Discrete Geometry for Computer Imagery (DGCI)*, volume 10502 of *Lecture Notes in Computer Science*, pages 69–81, 2017.

[AC154] Phuc Ngo, **Yukiko Kenmochi**, Nicolas Passat, and **Hugues Talbot**. Sufficient conditions for topological invariance of 2D images under rigid transformations. In *Discrete Geometry for Computer Imagery (DGCI)*, volume 7749 of *Lecture Notes in Computer Science*, pages 155–168. Springer, 2013.

[AC155] Phuc Ngo, Nicolas Passat, **Yukiko Kenmochi**, and Isabelle Debled-Rennesson. Convexity invariance of voxel objects under rigid motions. In *International Conference on Pattern Recognition (ICPR)*, 2018.

[AC156] Phuc Ngo, Nicolas Passat, **Yukiko Kenmochi**, and **Hugues Talbot**. Well-composed images and rigid transformations. In *International Conference on Image Processing (ICIP)*, pages 3035–3039. IEEE, 2013.

[AC157] Tuan-Anh Nguyen, Alice Dufour, Olena Tankyevych, Amir Nakib, Eric Petit, **Hugues Talbot**, and Nicolas Passat. Thin structure filtering framework with non-local means, Gaussian derivatives and spatially-variant mathematical morphology. In *International Conference on Image Processing (ICIP)*, Image Processing (ICIP), 2013 20th IEEE International Conference on, pages 1237–1241. IEEE, 2013.

[AC158] Laurent Noël and **Venceslas Biri**. Real-Time Global Illumination for Games using Topological Information. In *7th Annual International Conference on Computer Games Multimedia & Allied Technology*, 2014.

[AC159] Laurent Noël and **Venceslas Biri**. Portal Extraction Based on an Opening Labeling for Ray Tracing. In *12th International Symposium, ISMM 2015*, 2015.

[AC160] feki oussama, **Thierry Grandpierre**, **Mohamed Akil**, and Nouri Masmoudi. Automatic Hardware/Software interface generation for SynDEx-mixte. In *ATSIP 2014*, International Conference on Advanced Technologies for Signal and Image Processing (ATSIP), pages 512–516. IEEE, 2014.

[AC161] Edouard Oyallon, Eugene Belilovsky, and Sergey Zagoruyko. Scaling the Scattering Transform : Deep Hybrid Networks. In *International Conference on Computer Vision (ICCV)*, 2017.

[AC162] Mathias PAGET, Jean Philippe Tarel, and **Pascal Monasse**. Stereo Ambiguity Index for Semi-Global Matching. In *ICIP'17, IEEE International Conference on Image Processing*, page 5p., 2017.

[AC163] Costas Panagiotakis, Harris Papadakis, Elias Grinias, **Nikos Komodakis**, Paraskevi Fragopoulou, and Georgios Tziritas. Interactive Image Segmentation via Graph Clustering and Synthetic Coordinates Modeling. In *15th International Conference on Computer Analysis of Images and Patterns (CAIP 2013)*, volume 8047 of *Lecture Notes in Computer Science*, pages 589–596. Springer, 2013.

[AC164] **Nikos Paragios** and **Nikos Komodakis**. Discrete Visual Perception. In *International Conference on Pattern Recognition*, pages 1–7. IEEE, 2014.

[AC165] Nicolas Passat, Stéphanie Salmon, Jean-Paul Armspach, Benoît Naegel, Christophe Prud'Homme, **Hugues Talbot**, Alexandre Fortin, Simon Garnotel, Odyssée Merveille, Olivia Miraucourt, Ranine Tarabay, Vincent Chabannes, Alice Dufour, Anna Jezierska, Olivier Baledent, Emmanuel DURAND, **Laurent Najman**, Marcela SZOPOS, Alexandre Ancel, Joseph Baruthio, Maya Delbany, Sidy Fall, Gwenael Pagé, Olivier Génevaux, Mourad Ismail, Paulo Loureiro De Sousa, Marc Thiriet, and Julien Jomier. From real MRA to virtual MRA : Towards an open-source framework. In *Medical Image Computing and Computer-Assisted Intervention (MICCAI)*, volume 9902 of *Lecture Notes in Computer Science*, pages 335–343. Springer, 2016.

[AC166] **Benjamin Perret**. Inf-structuring functions and self-dual marked flattenings in bi-Heyting algebra. In *ISMM 2013*, volume 7883 of *LNCS*, pages 365–376. Springer Berlin Heidelberg, 2013.

[AC167] **Benjamin Perret**, **Jean Cousty**, Jean Carlo Rivera Ura, and Silvio Jamil F. Guimarães. Evaluation of morphological hierarchies for supervised segmentation. In *12th International Symposium on Mathematical Morphology*, volume 9082 of *Mathematical Morphology and Its Applications to Signal and Image Processing*, pages 39–50. Springer, 2015.

[AC168] Nicola Pierazzo, Jean-Michel Morel, and <u>Gabriele Facciolo</u>. Optimizing the Data Adaptive Dual Domain Denoising Algorithm. In *CIARP*, 2015.

[AC169] Nicola Pierazzo, Martin Rais, Jean-Michel Morel, and <u>Gabriele Facciolo</u>. DA3D : Fast and Data Adaptive Dual Domain Denoising. In *ICIP*, 2015.

[AC170] Carols Alberto F. Pimentel Filho, Arnaldo Albuquerque de Araújo, **Jean Cousty**, Silvio Jamil F. Guimarães, and **Laurent Najman**. Stochastic hierarchical watershed cut based on disturbed topographical surface. In *29th SIBGRAPI Conference on Graphics, Patterns and Images, SIBGRAPI 2016*, Graphics, Patterns and Images (SIBGRAPI), 2016 29th SIBGRAPI Conference on, 2016.

[AC171] <u>Kacper Pluta</u>, Pascal Romon, **Yukiko Kenmochi**, and Nicolas Passat. Bijective rigid motions of the 2D Cartesian grid. In *Discrete Geometry for Computer Imagery (DGCI)*, volume 9647 of *Lecture Notes in Computer Science*, pages 359–371. Springer, 2016.

[AC172] <u>Kacper Pluta</u>, Pascal Romon, **Yukiko Kenmochi**, and Nicolas Passat. Bijectivity certification of 3D digitized rotations. In *Computational Topology in Image Context (CTIC 2016)*, volume 9667, pages 30–41, 2016.

[AC173] <u>Kacper Pluta</u>, Pascal Romon, **Yukiko Kenmochi**, and Nicolas Passat. Honeycomb geometry : Rigid motions on the hexagonal grid. In *Discrete Geometry for Computer Imagery (DGCI)*, volume 10502 of *Lecture Notes in Computer Science*, pages 33–45. Springer, 2017.

[AC174] <u>Michal Postolski</u>, **Michel Couprie**, and Marcin Janasewski. Scale Filtered Euclidean Medial Axis. In *Discrete Geometry for Computer Imagery*, volume 7749 of *Lecture notes in computer science*, pages 360–371. Springer, 2013.

[AC175] <u>Élodie Puybareau</u>, Emilie Bequignon, Mathieu Bottier, Gabriel Pelle, Bruno Louis, Estelle Escudier, Jean-François Papon, **Laurent Najman**, **Hugues Talbot**, and André Coste. Towards the in-vivo automated assessment of nasal cilia mobility. In *Congress of the European Rhinologic Society*, 2016.

[AC176] <u>Élodie Puybareau</u>, Marc Léonard, and **Hugues Talbot**. An Automated Assay for the Evaluation of Mortality in Fish Embryo. In *ISMM 2015*, 2015.

[AC177] <u>Élodie Puybareau</u>, **Hugues Talbot**, E Bequignon, B Louis, G Pelle, J.-F Papon, A Coste, and **Laurent Najman**. Automating the measurement of physiological parameters : a case study in the image analysis of cilia motion. In *IEEE International Conference on Image Processing (ICIP)*, 2016.

[AC178] <u>Élodie Puybareau</u>, **Hugues Talbot**, and Marc Léonard. Automated heart rate estimation in fish embryo. In *International Conference on Image Processing Theory, Tools and Applications (IPTA)*, 2015.

[AC179] <u>Élodie Puybareau</u>, **Hugues Talbot**, and **Laurent Najman**. Periodic Area-of-Motion characterization for Bio-Medical applications. In *ISBI 2017*, 2017.

[AC180] <u>Élodie Puybareau</u>, **Hugues Talbot**, G Pelle, B Louis, J.-F Papon, A Coste, and **Laurent Najman**. A regionalized automated measurement of ciliary beating frequency. In *ISBI 2015*, 2015.

[AC181] <u>Élodie Puybareau</u>, **Hugues Talbot**, Gabriel Pelle, Bruno Louis, **Laurent Najman**, and André Coste. Automatic detection of beating cilia with frequencies estimations. In *Cilia 2014*, 2014.

[AC182] Zhou Ren, **Chaohui Wang**, and Alan Yuille. Scene-Domain Active Part Models for Object Representation. In *IEEE International Conference on Computer Vision (ICCV)*, Computer Vision (ICCV), 2015 IEEE International Conference on, pages 2497 – 2505, 2015.

[AC183] Emile Richard, **Guillaume Obozinski**, and Jean-Philippe Vert. Tight convex relaxations for sparse matrix factorization. In *Neural Information Processing Systems (NIPS 2014)*, Advances in Neural Information Processing Systems 27, pages 3284–3292, 2014.

[AC184] Julie Robic, A Nkengne, **Benjamin Perret**, **Michel Couprie**, and **Hugues Talbot**. Automated quantification of the epidermal aging process using in-vivo confocal microscopy. In *International Symposium on Biomedical Imaging*, 2016.

[AC185] Julie Robic, **Benjamin Perret**, Alex Nkengne, **Michel Couprie**, and **Hugues Talbot**. Classification of the dermal-epidermal junction using in-vivo confocal microscopy. In *International Symposium on Biomedical Imaging*, 2017 IEEE 14th International Symposium on Biomedical Imaging (ISBI 2017), pages 252–255, 2017.

[AC186] Franciele Rodrigues, Pedro Leal, **Yukiko Kenmochi**, **Jean Cousty**, **Laurent Najman**, Silvio Guimarães, and Zenilton Patrocínio. Graph-based Hierarchical Video Cosegmentation. In *19th International Conference on Image Analysis and Processing*, Lecture Note In Computer Sciences. Sebastiano Battiato and Giovanni Gallo, 2017.

[AC187] Geoffrey Roman-Jimenez, Oscar Acosta, Julie Leseur, Anne Devillers, Henri Der Sarkissian, Lina Guzman, Eloïse Grossiord, Juan-David Ospina, and Renaud De Crevoisier. Random forests to predict tumor recurrence following cervical cancer therapy using pre- and per-treatment F-18-FDG PET parameters. In *38th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC)*, IEEE Engineering in Medicine and Biology Society Conference Proceedings, pages 2444–2447. IEEE, 2016.

[AC188] Victoria Rudakova and **Pascal Monasse**. Precise correction of lateral chromatic aberration in images. In *PSIVT*, volume 8333 of *Lecture Notes in Computer Science*, pages 12–22. Springer, 2013.

[AC189] Victoria Rudakova and **Pascal Monasse**. Camera matrix calibration using circular control points and separate correction of the geometric distortion field. In *Computer and Robot Vision (CRV 2014)*, page 8 p., 2014.

[AC190] **Abderrahim Sahli**, Jacques Carlier, and Aziz Moukrim. Programmation linéaire en nombres entiers pour un problème d'ordonnancement avec production et consommation des ressources. In *ROADEF 2018*, 2018.

[AC191] Yohann Salaün, **Renaud Marlet**, and **Pascal Monasse**. Multiscale line segment detector for robust and accurate SfM. In *International Conference on Pattern Recognition*, Proceedings of the 23rd International Conference on Pattern Recognition (ICPR), pages 2001–2006. IEEE, 2016.

[AC192] Yohann Salaün, **Renaud Marlet**, and **Pascal Monasse**. Robust and Accurate Line- and/or Point-Based Pose Estimation without Manhattan Assumptions. In *14th European Conference on Computer Vision (ECCV 2016)*, volume 9911 of *Lecture Notes in Computer Science*, pages 801 – 818. Springer, 2016.

[AC193] Yohann Salaün, **Renaud Marlet**, and **Pascal Monasse**. Line-based Robust SfM with Little Image Overlap. In *International Conference on 3D Vision (3DV 2017)*, pages 195–204, 2017.

[AC194] **Jean Serra** and Bangalore Ravi Kiran. Optima on Hierarchies of Partitions. In *ISMM 2013*, volume 7883 of *Lecture Notes in Computer Science*, pages 147–158, 2013.

[AC195] **Jean Serra** and Bangalore Ravi Kiran. Digitization of Partitions and Tessellations. In *9th IAPR International Conference, DGCI 2016*, volume Lecture Notes in Computer Science, pages 323–334. Université Nantes, Springer International Publishing, 2016.

[AC196] Martin Simonovsky, Benjamín Gutiérrez-Becker, Diana Mateus, Nassir Navab, and **Nikos Komodakis**. A Deep Metric for Multimodal Registration. In *19th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2016)*, volume 9902 of *Medical Image Computing and Computer-Assisted Intervention – MICCAI 2016*, pages 10–18. Springer, 2016.

[AC197] Martin Simonovsky and **Nikos Komodakis**. Dynamic edge-conditioned filters in convolutional neural networks on graphs. In *2017 IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2017)*, pages 29–38, 2017.

[AC198] Mariem Slim, **Rostom Kachouri**, and Ahmed Ben Atitallah. Customer satisfaction measuring based on the most significant facial emotion. In *15th IEEE International Multi-Conference on Systems, Signals & Devices (SSD 2018)*, 2018.

[AC199] Sampriti Soor, Aditya Challa, Sravan Danda, B S Daya Sagar, and **Laurent Najman**. Extending K-means to Preserve Spatial Connectivity. In *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. IEEE, 2018.

[AC200] Mahmoud Soua, Alae Benchekroun, **Rostom Kachouri**, and **Mohamed Akil**. Real-time text extraction based on the page layout analysis system. In *SPIE Conference on Real-Time Image and Video Processing*, volume 10223 of *Real-Time Image and Video Processing 2017*, 2017.

[AC201] Mahmoud Soua, **Rostom Kachouri**, and **Mohamed Akil**. A new hybrid binarization method based on Kmeans. In *International Symposium on Communications, Control and Signal Processing (ISCCSP 2014)*, pages 118–123, 2014.

[AC202] Mahmoud Soua, **Rostom Kachouri**, and **Mohamed Akil**. Efficient multiscale and multifont optical character recognition system based on robust feature description. In *5th International Conference on Image Processing Theory, Tools and Applications* , 2015.

[AC203] Mahmoud Soua, **Rostom Kachouri**, and **Mohamed Akil**. Improved Hybrid Binarization based on Kmeans for Heterogeneous document processing. In *9th International Symposium on Image and Signal Processing and Analysis, ISPA'15*, pages 210–215. IEEE, 2015.

[AC204] Aristotle Spyropoulos, **Nikos Komodakis**, and Philippos Mordohai. Learning to Detect Ground Control Points for Improving the Accuracy of Stereo Matching. In *Computer Vision and Pattern Recognition 2014*, 2014.

[AC205] **Hugues Talbot**. Discrete Calculus, Optimisation and Inverse Problems in Imaging. In *International Conference on Discrete Geometry for Computer Imagery*, 2016.

[AC206] Zhongwei Tang, **Pascal Monasse**, and Jean-Michel Morel. Improving the matching precision of SIFT. In *International Conference on Image Processing*, Image Processing (ICIP), 2014 IEEE International Conference on, 2014.

[AC207] Zhongwei Tang, **Pascal Monasse**, and Jean-Michel Morel. Reflexive Symmetry Detection in Single Image. In *Curves and Surfaces*, volume LNCS 9213 of *Proceedings of the 8th International Conference Curves and Surfaces*, pages 452–460. Springer, 2014.

[AC208] Olena Tankyevych, **Hugues Talbot**, and Nicolas Passat. Semi-connections and hierarchies. In *International Symposium on Mathematical Morphology (ISMM)*, volume 7883 of *Lecture Notes in Computer Science*, pages 157–168. Springer, 2013.

[AC209] Trong Phuc Truong, Masahiro Yamaguchi, Shohei Mori, **Vincent Nozick**, and Hideo Saito. Registration of RGB and thermal point clouds generated by structure from motion. In *Multi-Sensor Fusion for Dynamic Scene Understanding*, 2017.

[AC210] Maria Vakalopoulou, Konstantinos Karantzalos, **Nikos Komodakis**, and **Nikos Paragios**. Building detection in very high resolution multispectral data with deep learning features. In

Geoscience and Remote Sensing Symposium (IGARSS), 2015 IEEE International, pages 1873–1876, 2015.

[AC211] Gioacchino Viggiani, Edward Andò, Clara Jaquet, and **Hugues Talbot**. Identifying and following particle-to-particle contacts in real granular media : An experimental challenge . In *POWDERS AND GRAINS 2013 : Proceedings of the 7th International Conference on Micromechanics of Granular Media*, volume 1542 of *AIP Conference Proceedings*, pages 60 – 65, 2013.

[AC212] Marina Vinyes and **Guillaume Obozinski**. Fast column generation for atomic norm regularization. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*, pages 547–556, 2017.

[AC213] Chaoyue Wang, **Chaohui Wang**, Chang Xu, and Dacheng Tao. Tag disentangled generative adversarial networks for object image re-rendering. In *International Joint Conference on Artificial Intelligence (IJCAI 2017)*, pages 2901–2907, 2017.

[AC214] Bo Xiang, **Nikos Komodakis**, and **Nikos Paragios**. Pose Invariant Deformable Shape Priors Using L1 Higher Order Sparse Graphs. In *9th International Symposium on Visual Computing - ISVC 2013*, 2013.

[AC215] Yongchao Xu, Edwin Carlinet, Thierry Géraud, and **Laurent Najman**. Meaningful Disjoint Level Lines Selection. In *International Conference on Image Processing (ICIP)*, 2014.

[AC216] Yongchao Xu, Edwin Carlinet, Thierry Géraud, and **Laurent Najman**. Efficient Computation of Attributes and Saliency Maps on Tree-Based Image Representations. In *Mathematical Morphology and Its Applications to Signal and Image Processing*, volume 9082 of *Lecture Note In Computer Sciences*, pages 693–704. Benediktsson, J.A. and Chanussot, J. and Najman, L. and Talbot, H., 2015.

[AC217] Yongchao Xu, Thierry Géraud, and Isabelle Bloch. From neonatal to adult brain MR image segmentation in a few seconds using 3D-like fully convolutional network and transfer learning. In *2017 IEEE International Conference on Image Processing (ICIP)*. IEEE, 2017.

[AC218] Yongchao Xu, Thierry Géraud, and **Laurent Najman**. Salient Level Lines Selection Using the Mumford-Shah Functional. In *ICIP 2013*, pages 1–5, 2013.

[AC219] Yongchao Xu, Thierry Géraud, and **Laurent Najman**. Two applications of shape-based morphology : blood vessels segmentation and a generalization of constrained connectivity. In *International Symposium on Mathematical Morphology*, volume 7883 of *Lecture Notes in Computer Science*, pages 386–397. Springer, 2013.

[AC220] Imane Youkana, **Jean Cousty**, Rachida Saouli, and **Mohamed Akil**. Morphological operators on graph based on geodesic distance map. In *International Conference on Computer Vision and Image Analysis Applications 2015*, Computer Vision and Image Analysis Applications (ICCVIA), 2015 International Conference on, 2015.

[AC221] Imane Youkana, **Jean Cousty**, Rachida Saouli, and **Mohamed Akil**. Parallelization Strategy for Elementary Morphological Operators on Graphs. In *19th IAPR International Conference on Discrete Geometry for Computer Imagery*, volume 9647 of *Discrete Geometry for Computer Imagery*, pages 311–322, 2016.

[AC222] Sergey Zagoruyko and **Nikos Komodakis**. Learning to compare image patches via convolutional neural networks. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2015)*, pages 4353–4361, 2015.

[AC223] Sergey Zagoruyko and **Nikos Komodakis**. Wide residual networks. In *British Machine Vision Conference (BMVC 2016)*, 2016.
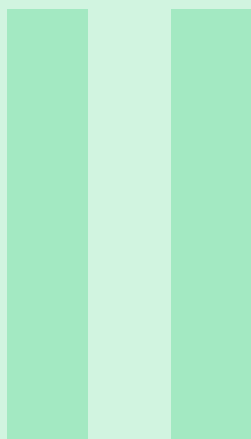
[AC224] Yun Zeng, Wang Chaohui, David Gu, Dimitris Samaras, and **Nikos Paragios**. A Generic Deformation Model for Dense Non-Rigid Surface Registration : a Higher-Order MRF-based Approach. In *ICCV 2013 - IEEE International Conference on Computer Vision*, pages 3360–3367. IEEE, 2013.

[AC225] Hong Zhibin, Zhe Chen, **Chaohui Wang**, Xue Mei, Danil Prokhorov, and Dacheng Tao. MUlti-Store Tracker (MUSTer) : a Cognitive Psychology Inspired Approach to Object Tracking. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2015.

[AC226] Yipin Zhou and **Nikos Komodakis**. A MAP-Estimation Framework for Blind Deblurring Using High-Level Edge Priors. In *European Conference on Computer Vision 2014*, 2014.

[AC227] Rafik Zitouni and **Laurent George**. Output power analysis of a software defined radio device. In *2016 IEEE Radio and Antenna Days of the Indian Ocean (RADIO)*. IEEE, 2016.

[AC228] Wenbin Zou and **Nikos Komodakis**. HARF : Hierarchy-Associated Rich Features for Salient Object Detection. In *2015 IEEE International Conference on Computer Vision (ICCV)*. IEEE, 2015.

3.3 Articles publiés dans des workshops

[AW1] Mathieu Andreux, Emanuele Rodola, **Mathieu Aubry**, and Daniel Cremers. Anisotropic Laplace-Beltrami Operators for Shape Analysis. In *NORDIA'14 - Sixth Workshop on Non-Rigid Shape Analysis and Deformable Image Alignment*, 2014.

[AW2] Ignacio Araya and **Bertrand Neveu**. lsmear : A Variable Selection Strategy for Interval Branch and Bound Solvers. In *GOW'16 XIII Global Optimization Workshop*, 2016.

[AW3] Martín Arévalo, Carlos Escobar, **Pascal Monasse**, Nelson Monzón, and Miguel Colom. The IPOL Demo System : A Scalable Architecture of Microservices for Reproducible Research. In *1st Workshop on Reproducible Research in Pattern Recognition*, pages 3–16. Springer, 2016.

[AW4] Ketan Bacchuwar, **Jean Cousty**, Régis Vaillant, and **Laurent Najman**. VOIDD : automatic vessel of intervention dynamic detection in PCI procedures. In *CVII-Stent Workshop MICCAI 2017*, volume 26, pages 136 – 157, 2017.

[AW5] Eric Bazan, Petr Dokládal, and **Eva Dokladalova**. Non supervised perceptual model for target recognition in UAVs. In *Reconnaissance des Formes, Image, Apprentissage et Perception RFIAP*, 2018.

[AW6] **Giovanni Chierchia**, Nelly Pustelnik, and **Jean-Christophe Pesquet**. Random primal-dual proximal iterations for sparse multiclass SVM. In *IEEE International Workshop on Machine Learning for Signal Processing (MLSP 2016)*, pages 1–6, 2016.

[AW7] Miguel Colom, Bertrand Kerautret, Nicolas Limare, **Pascal Monasse**, and Jean-Michel Morel. IPOL : a new journal for fully reproducible research ; analysis of four years development. In *Workshop NTMS 2015 on Reproducibility in Computation Based Research*, Proceedings of the 7th International Conference on New Technologies, Mobility and Security (NTMS 2015), 2015.

[AW8] **Jean Cousty**, Silvio Jamil F. Guimarães, Felipe Belèm, and Zenilton Jr Patrocinio. Impacts of contour saliency map transformations. In *Workshop of Undergraduate Works (WUW) in the 30th Conference on Graphics, Patterns and Images (SIBGRAPI'17)*, 2017.

[AW9] Thuy Hong Dao, Phuc Ngo, Isabelle Debled-Rennesson, **Yukiko Kenmochi**, and Nicolas Passat. Transformations rigides pour les objets discrets non-convexes en 2D. In *Journées du Groupe de Travail en Modélisation Géométrique (GTMG)*, 2018.

[AW10] Edouard Grave, **Guillaume Obozinski**, and Francis Bach. Domain adaptation for sequence labeling using hidden Markov models. In *New Directions in Transfer and Multi-Task : Learning Across Domains and Tasks (NIPS Workshop)*, 2013.

[AW11] Eloïse Grossiord, **Hugues Talbot**, Nicolas Passat, Michel Meignan, and **Laurent Najman**. Automated 3D lymphoma lesion segmentation from multimodal PET/CT characteristics. In *Journée thématique du GdR ISIS : "Segmentation d'images biomédicales : quels outils pour l'analyse des données massives, hétérogènes et multimodales ?"*, 2018.

[AW12] Eloïse Grossiord, **Hugues Talbot**, Nicolas Passat, Michel Meignan, Pierre Tervé, and **Laurent Najman**. Hiérarchies et analyse dans l'espace des formes pour la segmentation des images de tomographie par émission de positons. In *Journée ISS France*, 2015.

[AW13] Tsubasa Hirakawa, Toru Tamaki, Takio Kurita, Bisser Raytchev, Kazufumi Kaneda, **Chaohui Wang**, **Laurent Najman**, Tetsushi Koide, Shigeto Yoshida, Hiroshi Mieno, and Shinji Tanaka. Discriminative Subtree Selection for NBI Endoscopic Image Labeling. In *ACCV2016 workshop on Mathematical and Computational Methods in Biomedical Imaging and Image Analysis*, volume 26, pages 610 – 624, 2016.

[AW14] Thibaut Julliand, **Vincent Nozick**, and **Hugues Talbot**. Image Noise and Digital Image Forensics. In *IWDW 2015*, Digital-Forensics and Watermarking : 14th International Workshop, pages 3 – 17, 2015.

[AW15] Vincent Lesueur and **Vincent Nozick**. Least Square for Grassmann-Cayley Agelbra in Homogeneous Coordinates. In *GCCV 2013*, PSIVT Workshop on Geometric Computation for Computer Vision, pages 133 – 144, 2013.

[AW16] Odyssée Merveille. RORPO : Une méthode morphologique d'analyse des structures curvilignes. Application au filtrage et à la segmentation des vaisseaux sanguins. In *ORASIS*, 2017.

[AW17] Odyssée Merveille, **Hugues Talbot**, **Laurent Najman**, and Nicolas Passat. Tubular structure filtering by ranking orientation responses of path operators. In *Reims Image 2014 - Journées du Groupe de Travail en Géométrie Discrète (GT GeoDis)*, 2014.

[AW18] Odyssée Merveille, **Hugues Talbot**, and Nicolas Passat. Nouveaux opérateurs morphologiques pour la détection d'objets tubulaires. In *Journée ISS France*, 2014.

[AW19] Pierre Moulon, **Pascal Monasse**, and **Renaud Marlet**. Estimation robuste de modèle a contrario, impact sur la précision en structure from motion. In *ISS France*, 2013.

[AW20] Pierre Moulon, **Pascal Monasse**, Romuald Perrot, and **Renaud Marlet**. OpenMVG : Open Multiple View Geometry. In *Workshop on Reproducible Research in Pattern Recognition (RRPR 2016)*, pages 60–74, 2016.

[AW21] **Bertrand Neveu**, **Martin De La Gorce**, and Gilles Trombettoni. An interval branch and bound algorithm for parameter estimation. In *XIII Global Optimization Workshop (GOW 2016)*, 2016.

[AW22] **Bertrand Neveu**, Gilles Trombettoni, and Ignacio Araya. Node Selection Heuristics Using the Upper Bound in Interval Branch and Bound. In *MAGO-GOW : Global Optimization Workshop*, XII Global Optimization Workshop Mathematical Applied Global Optimization. MAGO 2014, 2014.

[AW23] Phuc Ngo, **Yukiko Kenmochi**, Nicolas Passat, and Isabelle Debled-Rennesson. Discrete regular polygons for digital shape rigid motion via polygonization. In *Workshop on Reproducible Research on Pattern Recognition (RRPR)*, 2018.

[AW24] Phuc Ngo, **Yukiko Kenmochi**, Nicolas Passat, and **Hugues Talbot**. Préservation topologique des images numériques 2D par transformations rigides. In *Journées du Groupe de Travail en Géométrie Discrète (GT GeoDis)*, 2013.

[AW25] Phuc Ngo, Nicolas Passat, **Yukiko Kenmochi**, and Isabelle Debled-Rennesson. Geometric-preserving rigid motions of digital objects. In *Journées Informatique et Géométrie (JIG)*, 2018.

[AW26] Phuc Ngo, Akihiro Sugimoto, **Yukiko Kenmochi**, Nicolas Passat, and **Hugues Talbot**. Discrete rigid transformation graph search for 2D image registration. In *PSIVT Workshops*, volume 8334 of *Lecture Notes in Computer Science*, pages 228–239. Springer, 2013.

[AW27] Mathias PAGET, Jean-Philippe Tarel, and **Pascal Monasse**. Contrôle de la direction privilégiée dans deux variantes de la méthode de reconstruction stéréoscopique SGM. In *RFIAP*, 2018.

[AW28] Kacper Pluta, **Yukiko Kenmochi**, Nicolas Passat, **Hugues Talbot**, and Pascal Romon. Topological alterations of 3D digital images under rigid transformations. In *Reims Image*, volume 4 of *GeoDis*, pages 31–33, 2014.

[AW29] Kacper Pluta, Guillaume Moroz, **Yukiko Kenmochi**, and Pascal Romon. Quadric Arrangement in Classifying Rigid Motions of a 3D Digital Image. In *International Workshop on Computer Algebra in Scientific Computing (CASC 2016)*, pages 426 – 443, 2016.

[AW30] M Rais, J-M Morel, C Thiebaut, J-M Delvit, and Gabriele Facciolo. Improving the accuracy of a Shack-Hartmann wavefront sensor on extended scenes. In *6th International Workshop on New Computational Methods for Inverse Problems (NCMIP)*, 2016.

[AW31] Yohann Salaün, **Renaud Marlet**, and **Pascal Monasse**. The Multiscale Line Segment Detector. In *1st Workshop on Reproducible Research in Pattern Recognition*, pages 167 – 178. Springer, 2016.

[AW32] Martin Simonovsky and **Nikos Komodakis**. Towards Variational Generation of Small Graphs. In *ICLR 2018 Workshop track (Sixth International Conference on Learning Representations)*, 2018.

[AW33] Maria Vakalopoulou, Konstantinos Karatzalos, **Nikos Komodakis**, and **Nikos Paragios**. Simultaneous Registration and Change Detection in Multitemporal, Very High Resolution Remote Sensing Data. In *2015 IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, pages 61–69, 2015.

[AW34] Yongchao Xu, Thierry Géraud, and **Laurent Najman**. Espaces des formes basés sur des arbres : définition et applications en traitement d'images et vision par ordinateur. In *Reconnaissance de Formes et Intelligence Artificielle (RFIA) 2014*, 2014.

II

Équipe Combinatoire Algébrique et Calcul Symbolique

4 Journaux / Revues

4.1 Articles scientifiques

[CJ1] Jean-Christophe Aval, Valentin Féray, **Jean-Christophe Novelli**, and **Jean-Yves Thibon**. Quasi-symmetric functions as polynomial functions on Young diagrams. *Journal of Algebraic Combinatorics*, 41(3) :669 – 706, May 2015.

[CJ2] **Philippe Biane**. Orthogonal polynomials on the unit circle, q-Gamma weights, and discrete Painlevé equations. *Moscow mathematical journal*, 2014.

[CJ3] **Philippe Biane**. Polynomials Associated with Finite Markov Chains. In *Séminaire de Probabilités XLVII, Lecture Notes in Mathematics, 2137, Springer, Berlin, 2015.*, pages 249–262. Springer, 2015.

[CJ4] **Philippe Biane** and Guillaume Chapuy. Laplacian matrices and spanning trees of tree graphs. *Annales de la Faculté des Sciences de Toulouse. Mathématiques.*, 26 :235 – 261, 2017.

[CJ5] **Philippe Biane** and Hayat Cheballah. Gog and GOGAm pentagons. *Journal of Combinatorial Theory, Series A*, 2016.

[CJ6] **Philippe Biane** and Yoann Dabrowski. Concavification of free entropy. *Advances in Mathematics*, 234 :667–696, February 2013.

[CJ7] **Philippe Biane** and P. Dehornoy. Dual Garside structure of braids and free cumulants of products. *Sém. Lothar. Combin.*, 72 :Art. B72b, 15, 2014.

[CJ8] **Nicolas Borie**. On the combinatorics of quadrant marked mesh patterns in 132-avoiding permutations. *The Australasian Journal of Combinatorics*, 64(1) :140–153, 2016.

[CJ9] **Olivier Bouillot**. The algebra of Hurwitz multizeta functions. *Comptes Rendus Mathématique*, 352(11) :865 – 869, November 2014.

[CJ10] **Olivier Bouillot**. On Hurwitz multizeta functions. *Advances in Applied Mathematics*, 71 :68 – 124, October 2015.

[CJ11] **Olivier Bouillot**. Mould calculus – On the secondary symmetries. *Comptes Rendus Mathématique*, 354(10) :965 – 970, October 2016.

[CJ12] Adrien Boussicault. Operations on partially ordered sets and rational identities of type A. *Discrete Mathematics and Theoretical Computer Science*, Vol. 15 no. 2(2) :13–32, April 2013. Combinatorics.

[CJ13] Jean-Paul Bultel. Combinatorial properties of the noncommutative Faà di Bruno algebra. *Journal of Algebraic Combinatorics*, 38(2) :243–273, 2013.

[CJ14] Jean-Paul Bultel and **Samuele Giraudo**. Combinatorial Hopf algebras from PROs. *Journal of Algebraic Combinatorics*, 2016.

[CJ15] Frédéric Chapoton, Florent Hivert, and **Jean-Christophe Novelli**. A set-operad of formal fractions and dendriform-like sub-operads. *Journal of Algebra*, 465 :322–355, November 2016. 31 pages.

[CJ16] Hayat Cheballah, **Samuele Giraudo**, and Rémi Maurice. Hopf algebra structure on packed square matrices. *Journal of Combinatorial Theory, Series A*, 133 :139–182, 2015.

[CJ17] Sylvie Corteel, **Matthieu Josuat-Vergès**, and Jang Soo Kim. Crossings of signed permutations and q-Eulerian numbers of type B. *Journal of Combinatorics*, 4 :191–228, 2013.

[CJ18] Valentin Féray, I. P. Goulden, and **Alain Lascoux**. An edge-weighted hook formula for labelled trees. *Journal of Combinatorics*, 5(2) :245–269, 2014.

[CJ19] Loïc Foissy, **Jean-Christophe Novelli**, and **Jean-Yves Thibon**. Polynomial realizations of some combinatorial Hopf algebras. *Journal of Noncommutative Geometry*, 8(1) :141–162, 2014. 20 pages.

[CJ20] Loïc Foissy, Frédéric Patras, and **Jean-Yves Thibon**. Deformations of shuffles and quasi-shuffles. *Annales de l'Institut Fourier*, 66(1) :209–237, 2016.

[CJ21] Chapoton Frédéric and **Samuele Giraudo**. Enveloping operads and bicoloured noncrossing configurations. *Experimental Mathematics*, 23(Issue 3) :332–349, 2014.

[CJ22] **Samuele Giraudo**. Combinatorial operads from monoids. *Journal of Algebraic Combinatorics*, 41(2) :493–538, March 2015. 42 pages. Complete version of the extended abstracts arXiv :1208.0920 and arXiv :1208.0922.

[CJ23] **Samuele Giraudo**. Operads from posets and Koszul duality. *European Journal of Combinatorics*, 56C :1–32, 2016.

[CJ24] **Samuele Giraudo**. Pluriassociative algebras I : The pluriassociative operad. *Advances in Applied Mathematics*, 77 :1–42, 2016.

[CJ25] **Samuele Giraudo**. Pluriassociative algebras II : The polydendriform operad and related operads. *Advances in Applied Mathematics*, 77 :43–85, 2016.

[CJ26] **Samuele Giraudo**, Jean-Gabriel Luque, Ludovic Mignot, and Florent Nicart. Operads, quasiorders, and regular languages. *Advances in Applied Mathematics*, 75 :56–93, 2016.

[CJ27] **Samuele Giraudo** and **Stéphane Vialette**. Algorithmic and algebraic aspects of unshuffling permutations. *Theoretical Computer Science*, 729 :20 – 41, June 2018.

[CJ28] Guo-Niu Han and **Matthieu Josuat-Vergès**. Flag statistics from the Ehrhart h * -polynomial of multi-hypersimplices. *Electronic Journal of Combinatorics*, 31 :#P1.55, 2016.

[CJ29] Frédéric Holweck, Jean-Gabriel Luque, and **Jean-Yves Thibon**. Entanglement of four qubit systems : a geometric atlas with polynomial compas I (the finite world). *Journal of Mathematical Physics*, 55 :012202, 2014. 48 pages, 7 tables, 13 figures A paraître dans Journal of Mathematical Physics.

[CJ30] Frédéric Holweck, Jean-Gabriel Luque, and **Jean-Yves Thibon**. Entanglement of four-qubit systems : A geometric atlas with polynomial compass II (the tame world). *Journal of Mathematical Physics*, 58(2), February 2017.

[CJ31] **Matthieu Josuat-Vergès**. Cumulants of the q-semicircular Law, Tutte Polynomials, and Heaps. *Canadian Journal of Mathematics*, 65 :863–878, 2013.

[CJ32] **Matthieu Josuat-Vergès**. Enumeration of snakes and cycle-alternating permutations. *The Australasian Journal of Combinatorics*, 60(3) :279–305, 2014.

[CJ33] **Matthieu Josuat-Vergès**. Derivatives of the tree function. *Ramanujan Journal*, 38(1) :1–15, 2015.

[CJ34] **Matthieu Josuat-Vergès**. Refined Enumeration of Noncrossing Chains and Hook Formulas. *Annals of Combinatorics*, 19(3) :443–460, 2015.

[CJ35] **Matthieu Josuat-Vergès** and Jang Soo Kim. Generalized Dyck tilings. *European Journal of Combinatorics*, 51 :458–474, 2015.

[CJ36] **Matthieu Josuat-Vergès**, Frederic Menous, **Jean-Christophe Novelli**, and **Jean-Yves Thibon**. Free cumulants, Schröder trees, and operads. *Advances in Applied Mathematics*, 88 :92 – 119, July 2017.

[CJ37] Gyula Karolyi, **Alain Lascoux**, and S. Ole Warnaar. Constant term identities and Poincaré polynomials. *Transactions of the American Mathematical Society*, 367 :6809–6836, 2015.

[CJ38] **Alain Lascoux**. Polynomial representations of the Hecke algebra of the symmetric group. *International Journal of Algebra and Computation*, 23(4) :803–818, May 2013.

[CJ39] **Michel Lassalle**. Class expansion of some symmetric functions in Jucys-Murphy elements. *Journal of Algebra*, 394 :397–443, 2013. 51 pages, LaTeX.

[CJ40] Rémi Maurice. A polynomial realization of the Hopf algebra of uniform block permutations. *Advances in Applied Mathematics*, 51(2) :285–308, May 2013.

[CJ41] Frédéric Menous, **Jean-Christophe Novelli**, and **Jean-Yves Thibon**. Mould calculus, polyhedral cones, and characters of combinatorial Hopf algebras. *Advances in Applied Mathematics*, 51(2) :177–227, March 2013.

[CJ42] **Jean-Christophe Novelli**, F. Patras, and **Jean-Yves Thibon**. Natural endomorphisms of quasi-shuffle Hopf algebras. *Bulletin de la société mathématique de France*, 141 :107–130, 2013. 18 pages.

[CJ43] **Jean-Christophe Novelli**, Thierry Paul, David Sauzin, and **Jean-Yves Thibon**. Rayleigh-Schrödinger series and Birkhoff decomposition. *Letters in Mathematical Physics*, 108(7) :1583–1600, 2018.

[CJ44] **Jean-Christophe Novelli**, Lenny Tevlin, and **Jean-Yves Thibon**. On some noncommutative symmetric functions analogous to Hall-Littlewood and Macdonald polynomials. *International Journal of Algebra and Computation*, 23(04) :779.1–779.20, 2013.

[CJ45] **Jean-Christophe Novelli** and **Jean-Yves Thibon**. Binary shuffle bases for quasi-symmetric functions. *The Ramanujan Journal*, 40 :207–225, March 2016.

[CJ46] **Jean-Christophe Novelli** and **Jean-Yves Thibon**. On composition polynomials. *Journal of Combinatorial Theory, Series A*, 152 :1–9, 2017.

[CJ47] Arthur Nunge. An equivalence of multistatistics on permutations. *J. Combin. Theory Ser. A*, 157 :435–460, 2018.

[CJ48] Viviane Pons. Interval structure of the Pieri formula for Grothendieck polynomials. *International Journal of Algebra and Computation*, 23(01) :123–146, 2013. 24 pages.

[CJ49] Viviane Pons and Grégory Chatel. Counting smaller elements in the Tamari and m-Tamari lattices. *Journal of Combinatorial Theory, Series A*, 134(58-97) :39, August 2015.

[CJ50] Pierre Tarrago. Asymptotic independence in large random permutations with fixed descent set. *Electron. J. Probab.*, 20(103, 33), 2015.

4.2 Articles de synthèse / revues bibliographiques

5 Ouvrages

6 Colloques / congrès, séminaires de recherche

6.1 Éditions d'actes de colloques / congrès

6.2 Articles publiés dans conférences internationales

[CC1] Jean-Christophe Aval, Valentin Féray, **Jean-Christophe Novelli**, and **Jean-Yves Thibon**. Super quasi-symmetric functions via Young diagrams. In *26th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2014)*, volume DMTCS Proceedings vol. AT, 26th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2014) of *DMTCS Proceedings*, pages 169–180. Discrete Mathematics and Theoretical Computer Science, 2014.

[CC2] **Philippe Biane**. Gog and Magog Triangles. In *Computation and Combinatorics in Dynamics, Stochastics and Control- The Abel Symposium, Rosendal, Norway, August 2016*. 2018.

[CC3] **Philippe Biane** and Hayat Cheballah. Gog, Magog and Schützenberger II : left trapezoids. In *25th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2013)*, volume AS of *DMTCS Proceedings*, pages 349–360. Discrete Mathematics and Theoretical Computer Science, 2013.

[CC4] **Philippe Biane** and **Matthieu Josuat-Vergès**. Minimal factorizations of a cycle : a multivariate generating function. In *Formal Power Series and Algebraic Combinatorics*, 2016.

[CC5] **Nicolas Borie**. Generation modulo the action of a permutation group. In *25th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2013)*, volume vol. AS, 25th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2013) of *DMTCS Proceedings*, pages 767–778, 2013.

[CC6] **Nicolas Borie**. Combinatorics of simple marked mesh patterns in 132-avoiding permutations. In *The 12th International Permutation Patterns Conference*. East Tennessee State University, 2014.

[CC7] **Nicolas Borie**. Effective Invariant Theory of Permutation Groups using Representation Theory. In *CAI 2015*, volume 9270 of *Proceedings of the 6th International Conference on Algebraic Informatics*, pages 58–69, 2015.

[CC8] **Nicolas Borie**. Three-dimensional Catalan numbers and product-coproduct prographs. In *FPSAC 2017 The 29th international conference on Formal Power Series and Algebraic Combinatorics*, 2017.

[CC9] **Olivier Bouillot** and Jean Ecalle. Invariants of identity-tangent diffeomorphisms expanded as series of multitangents and multizetas. In *Resurgence, Physics and Numbers*. April 2017.

[CC10] Frédéric Chapoton, Grégory Chatel, and Viviane Pons. Two bijections on Tamari Intervals. In *26th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2014)*, volume DMTCS Proceedings vol. AT, 26th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2014) of *DMTCS Proceedings*, pages 241–252. Discrete Mathematics and Theoretical Computer Science, 2014.

[CC11] Tom Chappell, **Alain Lascoux**, S. Ole Warnaar, and Wadim Zudilin. Logarithmic and complex constant term identities. In *Computational and Analytical Mathematics*, Springer Proceedings in Mathematics & Statistics, pages 219–250. Springer, 2013. 26 pages.

[CC12] Grégory Chatel and Vincent Pilaud. The Cambrian Hopf Algebra. In *27th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2015)*, volume DMTCS Proceedings, 27th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2015) of *DMTCS Proceedings*, pages 61–72. DMTCS, 2015.

[CC13] Grégory Chatel and Viviane Pons. Counting smaller trees in the Tamari order. In *25th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2013)*, volume AS of *DMTCS Proceedings*, pages 433–444. Discrete Mathematics and Theoretical Computer Science, 2013.

[CC14] Christophe Cordero. Enumerative Combinatorics of Prographs. In *30th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2018)*, volume 80B of *Séminaire Lotharingien de Combinatoire*, page Article 80B.58], 2018.

[CC15] **Samuele Giraudo**. Combalgebraic structures on decorated cliques. In *Formal Power Series and Algebraic Combinatorics*, 2017.

[CC16] **Samuele Giraudo** and **Stéphane Vialette**. Unshuffling Permutations. In *LATIN 2016*, volume 9644 of *LNCS*, pages 509–521, 2016.

[CC17] **Matthieu Josuat-Vergès** and Jang Soo Kim. Generalized Dyck tilings (Extended Abstract). In *26th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2014)*, volume DMTCS Proceedings vol. AT, 26th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2014) of *DMTCS Proceedings*, pages 181–192. Discrete Mathematics and Theoretical Computer Science, 2014.

[CC18] **Jean-Christophe Novelli**, Frederic Menous, and **Jean-Yves Thibon**. Combinatorics of Poincaré's and Schröder's equations. In *Resurgence, Physics and Numbers*, volume 20 of *Resurgence, Physics and Numbers*. F. Fauvet, D. Manchon, S. Marmi and D. Sauzin , Edizioni della Normale, 2015.

[CC19] Vincent Vong. Algebraic properties for some permutation statistics. In *25th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2013)*, volume DMTCS Proceedings vol. AS, 25th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2013), pages 843–854. DMTCS, 2013.

[CC20] Vincent Vong. Combinatorial proofs of freeness of some P-algebras. In *27th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2015)*, volume DMTCS Proceedings, 27th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2015) of *DMTCS Proceedings*, pages 523–534. DMTCS, 2015.

6.3 Articles publiés dans des workshops

III

Équipe Logiciels, Réseaux, Temps Réel

7 Journaux / Revues

7.1 Articles scientifiques

[LJ1] **Yasmina Abdeddaïm**, <u>Younès Chandarli</u>, Robert I. Davis, and **Damien Masson**. Response time analysis for fixed priority real-time systems with energy-harvesting. *Real-Time Systems*, 52(2) :125–160, 2016.

[LJ2] Ali Athar, Mubashir Husain Rehmani, and **Abderrezak Rachedi**. Cognitive-radio-based Internet of Things : applications, architectures, Spectrum related functionalities, and future research dIrections. *IEEE Wireless Communications*, 24(3), June 2017.

[LJ3] Djamila Bendouda, **Abderrezak Rachedi**, and Hafid Haffaf. Programmable architecture based on Software Defined Network for Internet of Things : Connected Dominated Sets approach. *Future Generation Computer Systems*, 80 :188–197, March 2018.

[LJ4] Abderrahim Benslimane and **Abderrezak Rachedi**. Rate adaptation scheme for IEEE 802.11-based MANETs. *Journal of Network and Computer Applications*, 39(1) :126–139, March 2014.

[LJ5] Maha Bouaziz and **Abderrezak Rachedi**. A survey on mobility management protocols in Wireless Sensor Networks based on 6LoWPAN technology. *Journal on Computer Communications*, 74 :3–15, February 2016.

[LJ6] Maha Bouaziz, **Abderrezak Rachedi**, and Belghith Abdelfettah. EKF-MRPL : Advanced Mobility Support Routing Protocol for Internet of Mobile Things : Movement prediction approach. *Future Generation Computer Systems*, March 2018.

[LJ7] <u>Ibtissem Boulanouar</u>, **Stéphane Lohier**, **Abderrezak Rachedi**, and G. Roussel. DTA : Deployment and Tracking Algorithm in Wireless Multimedia Sensor Networks. *Ad Hoc & Sensor Wireless Networks*, 28(1-2) :115–135, January 2015.

[LJ8] Abbas Bradai, Kamal Singh, **Abderrezak Rachedi**, and Toufik Ahmed. EMCOS : Energy-efficient Mechanism for Multimedia Streaming over Cognitive Radio Sensor Networks. *Pervasive and Mobile Computing*, 22 :16–32, June 2015.

[LJ9] Alan Burns and **Laurent George**. Guest editorial : multiprocessor scheduling. *Real-Time Systems*, 49(2) :137 – 139, March 2013.

[LJ10] **Sylvain Cherrier** and Yacine Ghamri-Doudane. Fault-recovery and coherence in internet of things choreographies. *International Journal of Information Technologies and Systems Approach*, 10(2), 2017.

[LJ11] **Sylvain Cherrier**, Yacine Ghamri-Doudane, **Stephane Lohier**, Ismail Salhi, and Philippe Valembois. BeC3 : Behaviour Crowd Centric Composition for IoT applications. *Mobile Networks and Applications*, 1383-469X(1572-8153) :1, November 2013.

[LJ12] Michel Chilowicz, **Étienne Duris**, and **Gilles Roussel**. Viewing functions as token sequences to highlight similarities in source code. *Science of Computer Programming*, 78(10) :1871–1891, 2013.

[LJ13] Olivier Cros, Frédéric Fauberteau, Xiaoting Li, and **Laurent George**. Mixed-criticality over switched Ethernet networks. *Ada User Journal*, 35(2), 2014.

[LJ14] Boutheina Dab, Ilhem Fajjari, and **Nadjib Aitsaadi**. Online-batch joint routing and channel allocation for hybrid data center networks. *IEEE Transactions on Network and Service Management*, 14(4) :831 – 846, 2017.

[LJ15] Fahimeh Dabaghi, Zeinab Movahedi, and **Rami Langar**. A survey on green routing protocols using sleep-scheduling in wired networks. *Journal of Network and Computer Applications*, 77 :106–122, January 2017.

[LJ16] Robert Davis, Alan Burns, Sanjoy K. Baruah, Thomas Rothvoß, **Laurent George**, and Oliver Gettings. Exact comparison of fixed priority and EDF scheduling based on speedup factors for both pre-emptive and non-pre-emptive paradigms. *Real-Time Systems*, 51(5) :566 – 601, 2015.

[LJ17] Alemayehu Desta, Pierre Courbin, Vincent Sciandra, and **Laurent George**. Gaussian-Based Smoothing of Wind and Solar Power Productions Using Batteries. *International Journal of Mechanical Engineering and Robotics Research*, pages 154 – 159, 2017.

[LJ18] Alemayehu Desta, **Laurent George**, Pierre Courbin, and Vincent Sciandra. Smoothing of renewable energy generation using Gaussian-based method with power constraints. *Energy Procedia*, 134 :171 – 180, 2017.

[LJ19] **Laurent George** and Tullio Vardanega. Ada-Europe 2014 proceedings - 19th Ada-Europe International Conference on Reliable Software Technologies, Paris, France, June 23-27, 2014. *Lecture notes in computer science*, June 2014.

[LJ20] Cédric Gueguen, **Abderrezak Rachedi**, and Mohsen Guizani. Incentive scheduler algorithm for cooperation and coverage extension in wireless Networks. *IEEE Transactions on Vehicular Technology*, 62(2) :797–808, January 2013.

[LJ21] Nadia Haddadou, **Abderrezak Rachedi**, and Yacine Ghamri-Doudane. A Job Market Signaling Scheme for Incentive and Trust Management in Vehicular Ad Hoc Networks. *IEEE Transactions on Vehicular Technology*, 64(8) :3657– 3674, 2015.

[LJ22] Nadia Haddadou, **Abderrezak Rachedi**, and Yacine Ghamri-Doudane. To Send or To Defer ? Improving the IEEE 802.11p/1609.4 Transmission Scheme. *Ad Hoc Networks*, 48 :53–65, May 2016.

[LJ23] Safa Hamdoun, **Abderrezak Rachedi**, and Abderrahim Benslimane. RSSI-based Localization Algorithms using Spatial Diversity in Wireless Sensor Networks. *International Journal of Ad Hoc and Ubiquitous Computing*, 19(3-4) :157–167, July 2015.

[LJ24] Mubashir Husain Rehmani, Melike Erol-Kantarci, **Abderrezak Rachedi**, Radenkovic Milena, and Martin Reisslein. Special section on smart grids : A hub of interdisciplinary research . *IEEE access*, December 2015.

[LJ25] Mubashir Husain Rehmani, **Abderrezak Rachedi**, Melike Erol-Kantarci, Radenkovic Milena, and Martin Reisslein. Cognitive radio based smart grid : The future of the traditional electrical grid. *Ad Hoc Networks*, 41 :1–4, February 2016.

[LJ26] Mubashir Husain Rehmani, Martin Reisslein, **Abderrezak Rachedi**, Melike Erol-Kantarci, and Milena Radenkovic. Guest Editorial Special Section on Smart Grid and Renewable Energy Resources : Information and Communication Technologies With Industry Perspective. *IEEE Transactions on Industrial Informatics*, 13(6) :3119 – 3123, December 2017.

[LJ27] Junaid Ahmed Khan and Yacine Ghamri-Doudane. SAVING : socially aware vehicular information-centric networking. *IEEE Communications Magazine*, 54(8) :100–107, 2016.

[LJ28] Junaid Ahmed Khan, Yacine Ghamri-Doudane, and Dmitri Botvich. Autonomous Identification and Optimal Selection of Popular Smart Vehicles for Urban Sensing - An Information-centric Approach. *IEEE Transactions on Vehicular Technology*, September 2016.

[LJ29] Junaid Ahmed Khan, Hassaan Khaliq Qureshi, and Adnan Iqbal. Energy management in Wireless Sensor Networks : A survey. *Computers and Electrical Engineering*, Volume 41, January 2015 :159–176, July 2014.

[LJ30] Minhaj Ahmad Khan, Tariq Umer, Samee Khan, Shui Yu, and **Abderrezak Rachedi**. IEEE Access Special Section Editorial : Green Cloud and Fog Computing : Energy Efficiency and Sustainability Aware Infrastructures, Protocols, and Applications. *IEEE Access*, 6 :12280 – 12283, 2018.

[LJ31] fekher khelifi, Abbas Bradai, Saber AMRI, **Abderrezak Rachedi**, Med Lassaad Kaddachi, and Mohamed Atri. A new fuzzy logic based node localization mechanism for Wireless Sensor Networks. *Future Generation Computer Systems*, 2017.

[LJ32] Lyes Khoukhi, **Hakim Badis**, Leila Merghem-Boulahia, and Moez Esseghir. Admission Control in Wireless Ad Hoc Networks : a Survey. *EURASIP Journal on Wireless Communications and Networking*, pages 109.1–109.13, April 2013.

[LJ33] Xiaoting Li and **Laurent George**. Deterministic delay analysis of AVB switched ethernet networks using an extended trajectory approach. *Real-Time Systems*, 53(1) :121 – 186, 2017.

[LJ34] Mohammed Yazid Lyazidi, **Nadjib Aitsaadi**, and **Rami Langar**. A dynamic resource allocation framework in LTE downlink for cloud-radio access network. *Computer Networks*, 140 :101–111, 2018.

[LJ35] Tesnim MEKKI, Issam Jabri, **Abderrezak Rachedi**, and Maher Benjemaa. Vehicular cloud networks : Challenges, architectures, and future directions. *Elsevier Vehicular Communications Journal*, 9 :268–280, September 2017.

[LJ36] Husain Rehmani Mubashir, **Abderrezak Rachedi**, **Stéphane Lohier**, Thierry Alves, and Benoit Poussot. Intelligent Antenna Selection Decision in IEEE 802.15.4 Wireless Sensor Networks : An Experimental Analysis. *Computers & Electrical Engineering*, 40(2) :443–455, February 2014.

[LJ37] José L. D. Neto, Se-Young Yu, Daniel Fernandes Macedo, José-Marcos Nogueira, **Rami Langar**, and Stefano Secci. ULOOF : a User Level Online Offloading Framework for Mobile Edge Computing. *IEEE Transactions on Mobile Computing*, 17(11) :2660–2674, March 2018.

[LJ38] Ermis Papastefanakis, Xiaoting Li, and **Laurent George**. A mixed criticality approach for the security of critical flows in a network-on-chip. *ACM SIGBED Review*, 13(4) :67 – 72, 2016.

[LJ39] Guillaume Phavorin, Pascal Richard, Joël Goossens, Claire Maiza, **Laurent George**, and Thomas Chapeaux. Online and offline scheduling with cache-related preemption delays. *Real-Time Systems*, pages 1–38, 2017.

[LJ40] Manar Qamhieh, **Laurent George**, and **Serge Midonnet**. Stretching algorithm for global scheduling of real-time DAG tasks. *Real-Time Systems*, 2018.

[LJ41] Manar Qamhieh and **Serge Midonnet**. Simulation-based evaluations of DAG scheduling in hard real-time multiprocessor systems. *ACM SIGAPP applied computing review : a publication of the Special Interest Group on Applied Computing*, 14(4) :12, 2014.

[LJ42] **Abderrezak Rachedi**, **Hakim Badis**, and Abderrahim Benslimane. How MIMO cross-layer design enables QoS while detecting non-cooperative nodes in wireless multi-hop networks. *Journal of Network and Computer Applications*, 46 :395–406, 2014.

[LJ43] **Abderrezak Rachedi** and Amina Hasnaoui. Advanced quality of services with security integration in wireless sensor networks. *Wireless Communications and Mobile Computing*, 15(6) :1106–1116, January 2015.

[LJ44] **Abderrezak Rachedi**, Mubashir Husain Rehmani, Soumaya Cherkaoui, and Joel José Puga Coelho Rodrigues. The Plethora of Research in Internet of Things (IoT). *IEEE Access*, 4, September 2016.

[LJ45] Mubashir Husain Rehmani, Ayaz Ahmad, **Abderrezak Rachedi**, Soumaya Cherkaoui, Kok-Lim Alvin Yau, Martin Reisslein, Melike Erol-Kantarci, and Milena Radenkovic. Integrating Renewable Energy Resources Into the Smart Grid : Recent Developments in Information and Communication Technologies. *IEEE Transactions on Industrial Informatics*, 14(7) :2814 – 2825, July 2018.

[LJ46] Vincent Sciandra, Pierre Courbin, and **Laurent George**. Application of mixed-criticality scheduling model to intelligent transportation systems architectures. *ACM SIGBED Review*, 10(2) :22 – 22, July 2013.

[LJ47] Oussama Soualah, **Nadjib Aitsaadi**, and Ilhem Fajjari. A novel reactive survivable virtual network embedding scheme based on game theory. *IEEE Transactions on Network and Service Management*, 14(3) :569 – 585, 2017.

[LJ48] Gazdar Tahani, Abderrahim Benslimane, Belghith Abdelfettah, and **Abderrezak Rachedi**. A secure cluster-based architecture for certificates management in vehicular networks. *Security and communication networks*, 7(3) :665–683, March 2014.

[LJ49] Shuai YU, **Rami Langar**, Xiaoming Fu, Li Wang, and Zhu Han. Computation Offloading with Data Caching Enhancement for Mobile Edge Computing. *IEEE Transactions on Vehicular Technology*, 67(11) :11098–11112, November 2018.

7.2 Articles de synthèse / revues bibliographiques

8 Ouvrages

8.1 Direction et coordination d'ouvrages / édition scientifique

[LDO1] **Stephane Lohier** and Dominique Present. *Reseaux et Transmissions*. January 2016.

8.2 Chapitres d'ouvrage

[LCO1] **Hakim Badis** and **Abderrezak Rachedi**. Modelling tools to evaluate the performance of wireless multi-hop networks. In *Modeling and simulation of computer networks and systems : Methodologies and applications*. Elsevier Science Ltd, 2015. Chapter 23.

[LCO2] smain femmam, Mohamed Ikbal Benakila, and **Laurent George**. Beacon Cluster-Tree Construction for ZigBee/IEEE802.15.4 Networks. In *https ://doi.org/10.1016/B978-1-78548-274-8.50005-2*, Building Wireless Sensor Networks. ISTE Press Ltd. Published by Elsevier Ltd, 2017.

[LCO3] **Laurent George** and Jean-François Hermant. Uniprocessor Architecture Solutions. In *DOI :10.1002/9781118984413*, Real-Time Systems Scheduling 1 : Fundamentals. John Wiley & Sons , September 2014.

[LCO4] Xiaoting Li and **Laurent George**. Chapter 1 : A Survey of Switched Ethernet Solutions for Real-time Audio/Video Communications. In *ISTE Press - Elsevier*, Building Wireless Sensor Networks - 1st Edition. September 2017.

[LCO5] **Serge Midonnet** and Frédéric Fauberteau. Synchronisations : protocoles d'accès aux ressources partagées. In Maryline Chetto, editor, *Ordonnancement dans les systèmes temps réel*, Collection Réseaux et télécommunications, pages 123–154. ISTE Editions, 2014.

[LCO6] **Serge Midonnet** and Frédéric Fauberteau. Synchronizations : Shared Resource Access Protocols. In *Real-Time Systems Scheduling 1*, pages 149–191. Wiley, 2014.

[LCO7] **Abderrezak Rachedi**. Monitoring mechanisms for wireless sensor networks : challenges and solutions. In Ibrahiem M. M. El Emary and S.Ramakrishnan, editors, *Wireless Sensor Networks : Theory and Application*, pages 595–621. CRC Press, January 2013.

9 Colloques / congrès, séminaires de recherche

9.1 Éditions d'actes de colloques / congrès

9.2 Articles publiés dans conférences internationales

[LC1] **Yasmina Abdeddaïm**, Younès Chandarli, Robert I. Davis, and **Damien Masson**. Schedulability analysis for fixed priority real-time systems with energy-harvesting. In *International Conference on Real-Time Networks and Systems (RTNS)*, pages 311–320, 2014.

[LC2] **Yasmina Abdeddaïm**, Younès Chandarli, and **Damien Masson**. The optimality of PFPasap algorithm for fixed-priority energy-harvesting real-time systems. In *Euromicro Conference on Real-Time Systems (ECRTS)*, pages 47–56, 2013.

[LC3] **Yasmina Abdeddaïm**, Younès Chandarli, and **Damien Masson**. Toward an Optimal Fixed-Priority Algorithm for Energy-Harvesting Real-Time Systems. In *RTAS WiP*, pages 45–48, 2013.

[LC4] **Yasmina Abdeddaïm** and Maxim Dorin. Probabilistic schedulability analysis for fixed priority mixed criticality real-time systems. In *Design, Automation and Test in Europe (DATE)*, pages 596–601, 2017.

[LC5] Alemayehu Addisu Desta, **Laurent George**, pierre courbin, and Vincent Sciandra. Modelling of Distributed Energy Resources in Industrial Context Using Service Curves of Network Calculus. In *International Conference on Computational Science and Computational Intelligence (CSCI)*. IEEE, 2015.

[LC6] Alemayehu Addisu Desta, Vincent Sciandra, Max Agueh, and **Laurent George**. Work in progress : Analytic hierarchy process applied to JPEG2000 video streaming over Wireless Multimedia Sensor Networks. In *9th International Conference on Communications and Networking in China (CHINACOM)*. IEEE, 2014.

[LC7] Ichrak Amdouni, Cedric Adjih, **Nadjib Aitsaadi**, and Paul Muhlethaler. Experiments with ODYSSE : Opportunistic Duty cYcle Based Routing for Wireless Sensor nEtworks. In *Local Computer Networks (LCN)*. IEEE, 2016.

[LC8] Ali Athar, Mubashir Husain Rehmani, and **Abderrezak Rachedi**. When Cognitive Radio meets the Internet of Things ? In *International Wireless Communications and Mobile Computing Conference (IWCMC)*, 2016.

[LC9] Muhammad Ali Awan, **Damien Masson**, and Eduardo Tovar. Energy-Aware Task Allocation onto Unrelated Heterogeneous Multicore Platform for Mixed Criticality Systems. In *Work-in-Progress Session of the Real-Time Systems Symposium*, 2015.

[LC10] Muhammad Ali Awan, **Damien Masson**, and Eduardo Tovar. Energy efficient mapping of mixed criticality applications on unrelated heterogeneous multicore platforms. In *International Symposium on Industrial Embedded Systems (SIES)*, pages 63–72. IEEE, 2016.

[LC11] Marwane Ayaida, Mohtadi Barhoumi, Hacène Fouchal, **Yacine Ghamri-Doudane**, and Lissan Afilal. Efficient Coupling of Routing and Location-based Service for VANETs. In *BWCCA*, pages 1–6, 2013.

[LC12] Marwane Ayaida, Mohtadi Barhoumi, Hacène Fouchal, **Yacine Ghamri-Doudane**, and Lissan Afilal. PHRHLS : A Movement-Prediction-based Joint Routing and Hierarchical Location Service for VANETs. In *International Conference on Communications (ICC)*, page 5. IEEE, 2013.

[LC13] **Hakim Badis** and **Abderrezak Rachedi**. Performance evaluation of MIMO-based MAC/-PHY cross-layer design in multi-hop ad hoc networks. In *International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)*, pages 542–548. IEEE, 2015.

[LC14] **Hakim Badis** and **Abderrezak Rachedi**. Markov Chain-based performance analysis of MIMO-Aware Media Access Control Protocol. In *International Conference on Communications (ICC)*, pages 1061–1066. IEEE, 2017.

[LC15] Ahlam Ben Cheikh, Mouna Ayari, **Rami Langar**, and Leila Azouz Saidane. OHDP : Optimized Handover with Direction Prediction Scheme Using Linear Regression for Femtocell Networks. In *IFIP PEMWN*, 2016.

[LC16] Rim Ben Messaoud and Yacine Ghamri-Doudane. QEMSS : A selection scheme for participatory sensing tasks. In *CFIP/ NOuvelles TEchnologies de la REpartition (NOTERE)*, 2015.

[LC17] Rim Ben Messaoud and Yacine Ghamri-Doudane. QoI and Energy-Aware Mobile Sensing Scheme : A Tabu-Search Approach. In *Vehicular Technology Conference (VTC)*. IEEE, 2015.

[LC18] Rim Ben Messaoud and Yacine Ghamri-Doudane. Fair QoI and Energy-aware Task Allocation in Participatory Sensing. In *Wireless Communications and Networking Conference*. IEEE, 2016.

[LC19] Rim Ben Messaoud and Yacine Ghamri-Doudane. Allocation Equitable des Tâches de Collecte Participative de Données. In *CoRes*, 2016.

[LC20] Rim Ben Messaoud, Yacine Ghamri-Doudane, and Dmitri Botvich. Preference and Mobility-Aware Task Assignment in Participatory Sensing. In *MSWIM*, pages 1–9, 2016.

[LC21] Rim Ben Messaoud, Zeineb Rejiba, and Yacine Ghamri-Doudane. An Energy-aware End-to-End Crowdsensing Platform : Sensarena. In *Consumer Communications & Networking Conference (CCNC)*. IEEE, 2016.

[LC22] Rim Ben Messaoud, Nouha Sghaier, Mohamed Ali Moussa, and Yacine Ghamri-Doudane. On The Privacy-Utility Tradeoff in Participatory Sensing Systems. In *NCA*, pages 1–8, 2016.

[LC23] Djamila Bendouda, **Abderrezak Rachedi**, and Hafid Haffaf. An hybrid and proactive architecture based on SDN for Internet of Things. In *International Wireless Communications and Mobile Computing Conference (IWCMC)*, 2017.

[LC24] Amira Bezzina, Mouna Ayari, **Rami Langar**, and Leila Azouz Saidane. Joint Optimization of Resource and Power Allocation in Heterogeneous Urban Dense Cellular Networks. In *International Wireless Communications and Mobile Computing Conference (IWCMC)*. IEEE, 2018.

[LC25] Amira Bezzina, Mouna Ayari, **Rami Langar**, and Leila Azouz Saidane. A fair cluster-based resource and power allocation scheme for two-tier LTE femtocell networks. In *Global Information Infrastructure and Networking Symposium (GIIS)*. IEEE, 2016.

[LC26] Maha Bouaziz, **Abderrezak Rachedi**, and Belghith Abdelfettah. EC-MRPL : An energy-efficient and mobility support routing protocol for Internet of Mobile Things. In *Consumer Communications & Networking Conference (CCNC)*. IEEE , 2017.

[LC27] Ibtissem Boulanouar, **Stéphane Lohier**, **Abderrezak Rachedi**, and **Gilles Roussel**. CTA : a collaborative tracking algorithm in wireless sensor networks. In *ICNC*, pages 529 – 534. IEEE, 2013.

[LC28] Ibtissem Boulanouar, **Stéphane Lohier**, **Abderrezak Rachedi**, and **Gilles Roussel**. PTA : A Predictive Tracking Algorithm in Wireless Multimedia Sensor Networks. In *Global Information Infrastructure Symposium*. IEEE, 2013.

[LC29] Ibtissem Boulanouar, **Stéphane Lohier**, **Abderrezak Rachedi**, and **Gilles Roussel**. A Collaborative Tracking Algorithm for Communicating Target in Wireless Multimedia Sensor Networks. In *IFIP Wireless and Mobile Networking Conference*, 2014.

[LC30] Ibtissem Boulanouar, **Stéphane Lohier**, **Abderrezak Rachedi**, and **Gilles Roussel**. PMT^2 : A Predictive Mobile Target Tracking Algorithm in Wireless Multimedia Sensor Networks. In *ISCC*. IEEE, 2014.

[LC31] Amine Boulemtafes, **Abderrezak Rachedi**, and Nadjib Badache. A Study of Mobility Support in Wearable Health Monitoring Systems : Design Framework. In *International Conference on Computer Systems and Applications*. ACS/IEEE, 2015.

[LC32] El Hocine Bouzidi, Hung Luong, Abdelkader Outtagart, Abdelkrim Hebbar, and **Rami Langar**. Online-based Learning for Predictive Network Latency in Software-defined Networks. In *Global Communications Conference (GLOBECOM)*. IEEE, 2018.

[LC33] Abbas Bradai, Toufik Ahmed, and **Abderrezak Rachedi**. Enhancing content dissemination for ad hoc cognitive radio. In *The International Wireless Communications and Mobile Computing Conference (IWCMC)*, pages x.1–x.6, 2014.

[LC34] Abbas Bradai, Kamal Singh, **Abderrezak Rachedi**, and Toufik Ahmed. Clustering in cognitive radio for multimedia streaming over wireless Sensor networks. In *International Wireless Communications and Mobile Computing Conference (IWCMC)*, 2015.

[LC35] Mihaela Brut, Patrick GATELLIER, Ismail Salhi, **Sylvain Cherrier**, Yacine Ghamri-Doudane, David Excoffier, Nicolas Dumont, and Mario Lopez Ramos. When Devices Become Collaborative. Supporting Device Interoperability and Behaviour Reconfiguration Across Emergency Management Scenario. In *World Forum on Internet of Things, WF-IoT*. IEEE, 2014.

[LC36] Younès Chandarli, Nathan Fisher, and **Damien Masson**. Response Time Analysis for Thermal-Aware Real-Time Systems Under Fixed-Priority Scheduling. In *International Symposium on Real-Time Distributed Computing (ISORC)*, volume 1555-0885, pages 84–93. IEEE, 2015.

[LC37] **Sylvain Cherrier** and Varun Deshpande. From BPM to IoT. In *International Conference on Business Process Management*, volume 308, pages 310–318. Springer, 2017.

[LC38] **Sylvain Cherrier** and Yacine Ghamri-Doudane. The "Object-as-a-Service" paradigm. In *Global Information Infrastructure and Networking Symposium (GIIS)*, page 1. IEEE, 2014.

[LC39] **Sylvain Cherrier**, Yacine Ghamri-Doudane, **Stephane Lohier**, and **Gilles Roussel**. SALT : a Simple Application Logic description using Transducers for Internet of Things. In *International Conference on Communications (ICC)*, pages 3006–3011. IEEE, 2013.

[LC40] **Sylvain Cherrier**, Yacine Ghamri-Doudane, **Stéphane Lohier**, and **Gilles Roussel**. Fault-recovery and coherence in Internet of Things choreographies. In *World Forum on Internet of Things (WF-IoT)*, pages 532–537. IEEE, 2014.

[LC41] **Sylvain Cherrier**, Zahra Movahedi, and Yacine Ghamri-Doudane. Multi-Tenancy in Decentralised IoT. In *World Forum on Internet of Things (WF-IoT)*. IEEE, 2015.

[LC42] Salvatore Costanzo, Ilhem Fajjari, **Nadjib Aitsaadi**, and **Rami Langar**. DEMO : SDN-based Network Slicing in C-RAN. In *Consumer Communications and Networking Conference (CCNC)*, pages 1–2. IEEE, 2018.

[LC43] Salvatore Costanzo, Ilhem Fajjari, **Nadjib Aitsaadi**, and **Rami Langar**. Dynamic network slicing for 5G IoT and eMBB services : A new design with prototype and implementation results. In *Cloudification of the Internet of Things (CIoT)*, 2018.

[LC44] Salvatore Costanzo, Ilhem Fajjari, **Nadjib Aitsaadi**, and **Rami Langar**. A network slicing prototype for a flexible cloud radio access network. In *Consumer Communications and Networking Conference (CCNC)*, pages 1–4. IEEE, 2018.

[LC45] Boutheina Dab, Ilhem Fajjari, and **Nadjib Aitsaadi**. A Heuristic Approach for Joint Batch-Routing and Channel Assignment in Hybrid-DCNs. In *Global Communications Conference (GLOBECOM)*. IEEE, 2017.

[LC46] Boutheina Dab, Ilhem Fajjari, and **Nadjib Aitsaadi**. A Joint Batch-Routing and Channel Assignment Approach in Hybrid Data Center Networks. In *Vehicular Technology Conference (VTC)*. IEEE, 2017.

[LC47] Boutheina Dab, Ilhem Fajjari, and **Nadjib Aitsaadi**. A Novel Joint Routing and Channel Allocation Approach in Hybrid Data Center Network. In *International Conference on Sensing, Communication, and Networking (SECON)*. IEEE, 2017.

[LC48] Alemayehu Desta, **Hakim Badis**, **Laurent George**, and Pierre Courbin. A Mixed Criticality Approach for Industrial Smart Energy Management and Demand Response. In *Real-Time Scheduling Open Problems Seminar (RTSOPS)*, 2017.

[LC49] Alemayehu Desta, **Hakim Badis**, **Laurent George**, and Pierre Courbin. An efficient production scheduling based on queuing theory in systems with synchronous part transfer during a demand response event. In *International Conference on Smart Grid Communications (SmartGridComm)*, pages 546–552. IEEE, 2017.

[LC50] Ilhem Fajjari, **Nadjib Aitsaadi**, and Djamel Eddine Kouicem. A Novel SDN Scheme for QoS Path Allocation in Wide Area Networks. In *Global Communications Conference (GLOBECOM)*. IEEE, 2017.

[LC51] Tristan Fautrel, **Laurent George**, Joël Goossens, **Damien Masson**, and Paul Rodriguez. A Practical Sub-Optimal Solution for the Dual Priority Scheduling Problem. In *International Symposium on Industrial Embedded Systems (SIES)*. IEEE, 2018.

[LC52] **Laurent George**, Joël Goossens, and **Damien Masson**. Dual Priority and EDF : a closer look. In *Real-Time Systems Symposium (RTSS WiP)*. IEEE, 2014.

[LC53] Ghada Glissa, **Abderrezak Rachedi**, and Aref Meddeb. A secure routing protocol based on RPL for Internet of Things. In *Global Communication Conference (Globecom)*. IEEE , 2016.

[LC54] Nadia Haddadou and **Abderrezak Rachedi**. DTM^2 : Adapting job market signaling for distributed trust management in vehicular ad hoc networks. In *International Conference on Communications (ICC)*, pages 1827 – 1832. IEEE, 2013.

[LC55] Nadia Haddadou, **Abderrezak Rachedi**, and Yacine Ghamri-Doudane. Trust and exclusion in vehicular ad hoc networks : an economic incentive model based approach. In *ComComAP*, pages 13 – 18, 2013.

[LC56] Nadia Haddadou, **Abderrezak Rachedi**, and Yacine Ghamri-Doudane. L'instant propice à l'envoi d'un message sur la couche IEEE 802.11p/1609.4. In *UbiMob : journées francophones Mobilité et Ubiquité*, 2014.

[LC57] Safa Hamdoun, **Abderrezak Rachedi**, and Abderrahim Benslimane. Comparative analysis of RSSI-based indoor localization when using multiple antennas in wireless sensor networks. In *(MoWNeT)*, pages 146 – 151, 2013.

[LC58] Safa Hamdoun, **Abderrezak Rachedi**, and Yacine Ghamri-Doudane. Partage des ressources radio pour MTC dans LTE-A : Une approche basée sur le graphe biparti. In *NOuvelles TEchnologies de la REpartition (NOTERE)*. CFIP (Colloque francophone sur l'ingénierie des protocoles), 2015.

[LC59] Safa Hamdoun, **Abderrezak Rachedi**, and Yacine Ghamri-Doudane. Radio Resource Sharing for MTC in LTE-A : An Interference-Aware Bipartite Graph Approach. In *Global Communication Conference (Globecom)*. IEEE, 2015.

[LC60] Safa Hamdoun, **Abderrezak Rachedi**, and Yacine Ghamri-Doudane. A flexible M2M radio resource sharing scheme in LTE networks within an H2H/M2M coexistence scenario . In *International Conference on Communications (ICC)*. IEEE, 2016.

[LC61] Safa Hamdoun, **Abderrezak Rachedi**, and Yacine Ghamri-Doudane. Gestion adaptative des ressources radio dans un scénario de coexistence M2M/H2H. In *CoRes*, 2016.

[LC62] Safa Hamdoun, **Abderrezak Rachedi**, Hamidou Tembine, and Yacine Ghamri-Doudane. Efficient Transmission Strategy Selection Algorithm for M2M Communications : An Evolutionary Game Approach. In *International Symposium on Network Computing and Applications (NCA)*. IEEE, 2016.

[LC63] Adriana Hava, Gabriel-Miro Muntean, Yacine Ghamri-Doudane, and John Murphy. A New Load Balancing Mechanism for Improved Video Delivery Over Wireless Mesh Networks. In *High Performance Switching and Routing (HPSR)*, page 6. IEEE, 2013.

[LC64] Mubashir Husain Rehmani, **Abderrezak Rachedi**, **Stéphane Lohier**, Thierry Alves, and Benoit Poussot. On the feasibility of making intelligent antenna selection decision in IEEE 802.15.4 wireless sensor networks. In *ComComAP*, pages 41 – 46, 2013.

[LC65] Junaid Ahmed Khan and Yacine Ghamri-Doudane. Car Rank : An Information-Centric Identification of Important Smart Vehicles for Urban Sensing. In *International Symposium on Network Computing and Applications*, volume 14, page 184 - 191, page 8. IEEE , 2015.

[LC66] Junaid Ahmed Khan and Yacine Ghamri-Doudane. STRIVE : Socially-aware Three-tier Routing in Information-centric Vehicular Environment. In *Global Communications Conference (GLOBECOM)*. IEEE, 2016.

[LC67] Junaid Ahmed Khan, Yacine Ghamri-Doudane, and Dmitri Botvich. GRank -An Information-Centric Autonomous and Distributed Ranking of Popular Smart Vehicles. In *Global Communications Conference (GLOBECOM)*, page 7. IEEE, 2015.

[LC68] Junaid Ahmed Khan, Yacine Ghamri-Doudane, and Dmitri Botvich. InfoRank : Information-Centric Autonomous Identification of Popular Smart Vehicles. In *Vehicular Technology Conference (VTC-Fall)*, page 6. IEEE, 2015.

[LC69] Junaid Ahmed Khan, Yacine Ghamri-Doudane, and Ali El Masri. Towards the ranking of important smart vehicles in VANETs-An information-centric approach. In *CFIP NOuvelles TEchnologies de la REpartition (NOTERE)*, page 6, 2015.

[LC70] Junaid Ahmed Khan, Hassaan Khaliq Qureshi, and Adnan Iqbal. TRW : An energy storage capacity model for energy harvesting sensors in wireless sensor networks. In *International Symposium on Personal, Indoor and Mobile Radio Communications : Mobile and Wireless Networks (PIMRC)*, page 6. IEEE, 2014.

[LC71] Inès El Korbi, Yacine Ghamri-Doudane, Rimel Jazi, and Leila Saidane Azouz. Coverage-Connectivity based Fault Tolerance Procedure in Wireless Sensor Networks. In *International Wireless Communications and Mobile Computing Conference (IWCMC)*, page 6, 2013.

[LC72] Tayeb Lemlouma, **Abderrezak Rachedi**, Mohamed Aymen Chalouf, and Soraya Ait Chellouche. A new model for NGN pervasive eHealth services. In *(Ubi-HealthTech)*, pages 1 – 5, 2013.

[LC73] Xiaoting Li, Olivier Cros, and **Laurent George**. The Trajectory approach for AFDX FIFO networks revisited and corrected. In *International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA)*, pages 1–10. IEEE, 2014.

[LC74] Mohammed Yazid Lyazidi, **Nadjib Aitsaadi**, and **Rami Langar**. Resource allocation and admission control in ofdma-based cloud-ran. In *Global Communications Conference (GLOBECOM)*, pages 1–6. IEEE, 2016.

[LC75] Mohammed Yazid Lyazidi, Lorenza Giupponi, Josep Mangues-Bafalluy, **Nadjib Aitsaadi**, and **Rami Langar**. A novel optimization framework for c-ran bbu selection based on resiliency and price. In *Vehicular Technology Conference (VTC-Fall)*, pages 1–6. IEEE, 2017.

[LC76] Raouia Masmoudi. Ergodic Capacity for Fading Channels in Cognitive Radio Networks. In *International Conference on Advanced Technologies for Signal and Image Processing (ATSIP)*, 2018.

[LC77] Raouia Masmoudi. Power allocation Problem for Fading Channels in Cognitive Radio Networks. In *International Multi-Conference on Systems, Signals and Devices (SSD)*, 2018.

[LC78] Raouia Masmoudi. Spectrum Sharing in Cognitive Radio Systems. In *9th IFIP International Conference on New Technologies, Mobility & Security (NTMS)*, 2018.

[LC79] Salma Matoussi, Ilhem Fajjari, Salvatore Costanzo, N. Aitsaadi, and **Rami Langar**. A User Centric Virtual Network Function Orchestration for Agile 5G Cloud-RAN. In *International Conference on Communications (ICC)*. IEEE, 2018.

[LC80] Naourez Mejri, Mouna Ayari, **Rami Langar**, and Leila Azouz Saidane. CON2PAS : A Constrained Congestion Game for Parking Space Assignment. In *IFIP PEMWN*, 2016.

[LC81] Naourez Mejri, Mouna Ayari, **Rami Langar**, and Leila Azouz Saidane. Reservation-based Multi-Objective Smart Parking Approach for Smart Cities. In *ISC2* . IEEE, 2016.

[LC82] Tesnim MEKKI, Issam Jabri, **Abderrezak Rachedi**, and Maher Ben Jemaa. Proactive and Hybrid Wireless Network Access Strategy for Vehicle Cloud Networks : An Evolutionary Game Approach. In *International Wireless Communications and Mobile Computing Conference (IWCMC)*, 2017.

[LC83] Walid Merrad, **Abderrezak Rachedi**, Krishna Busawon, and Richard Binns. A survey on smart traffic network control and optimization. In *International Conference Multidisciplinary Engineering Design Optimization (MEDO)*, 2016.

[LC84] **Serge Midonnet** and Montanes Jeremy. An Expérimental Analysis of Energy-Aware Scheduling Algorithms in Real-Time Systems. In *CAINE*, 2015.

[LC85] Mohamed Ali Moussa, Yosra Marnissi, and Yacine Ghamri-Doudane. A primal-dual algorithm for data gathering based on matrix completion for Wireless Sensor Networks. In *IEEE International Conference on Communications (ICC)*. IEEE, 2016.

[LC86] Mohamed Ali Moussa, Yosra Marnissi, and Yacine Ghamri-Doudane. Matrix Completion with Convex Constraints for Data Gathering in Wireless Sensor Networks. In *Global Communications Conference (GLOBECOM)*. IEEE, 2016.

[LC87] Zahra Movahedi, **Sylvain Cherrier**, and Yacine Ghamri-Doudane. BeC3 : a Crowd-Centric Composition Testbed for the Internet of Things. In *Consumer Communications and Networking Conference (CCNC)*. IEEE, 2016.

[LC88] Huong Nguyen-Minh, Abderrahim Benslimane, and **Abderrezak Rachedi**. Jamming Detection on 802.11p under Multi-channel Operation in Vehicular Networks. In *International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)*. IEEE, 2015.

[LC89] Cristian Olariu, John Fitzpatrick, **Yacine Ghamri-Doudane**, and Liam Murphy. Provisioning Call Quality and Capacity for Femtocells over Wireless Mesh Backhaul. In *International Symposium on Personal, Indoor and Mobile Radio Communications : Mobile and Wireless Networks (PiMRC)*, page 6. IEEE, 2013.

[LC90] Ermis Papastefanakis, Xiaoting Li, and **Laurent George**. Deterministic scheduling in Networks-on-Chip using the Trajectory approach. In *International Symposium on Real-Time Distributed Computing (ISORC)*, pages 60–65. IEEE, 2015.

[LC91] Manar Qamhieh, Frédéric Fauberteau, **Laurent George**, and **Serge Midonnet**. Global EDF scheduling of directed acyclic graphs on multiprocessor systems. In *International conference on Real-Time Networks and Systems*, pages 287–297, 2013.

[LC92] Manar Qamhieh, **Laurent George**, and **Serge Midonnet**. A Stretching Algorithm for Parallel Real-time DAG Tasks on Multiprocessor Systems. In *International Conference on Real-Time Networks and Systems*, volume RTNS '14, pages 13–22, 2014.

[LC93] Manar Qamhieh and **Serge Midonnet**. An Experimental Analysis of DAG Scheduling Methods in Hard Real-time Multiprocessor Systems. In *Research in Adaptive and Convergent Systems*, pages 284–290. RACS '14 and ACM, 2014.

[LC94] Manar Qamhieh and **Serge Midonnet**. Schedulability analysis for directed acyclic graphs on multiprocessor systems at a subtask level. In *International Conference on Reliable Software Technologies (ADA-Europe)*, pages 119–133. ADA-Europe, 2014.

[LC95] **Abderrezak Rachedi** and **Hakim Badis**. BadZak : An hybrid architecture based on virtual backbone and software defined network for Internet of vehicles. In *International Conference on Communications (ICC)*, pages 1–7. IEEE, 2018.

[LC96] **Abderrezak Rachedi** and Abderrahim Benslimane. Multi-objective optimization for Security and QoS adaptation in Wireless Sensor Networks. In *International Conference on Communications (ICC)*. IEEE, 2016.

[LC97] **Abderrezak Rachedi** and Cedric Gueguen. Scheduling algorithm based on PID controller for OFDM wireless networks. In *International Wireless Communications and Mobile Computing Conference (IWCMC)*, 2016.

[LC98] **Abderrezak Rachedi** and Amina Hasnaoui. Security with Quality-of-Services optimization in wireless sensor networks. In *International Wireless Communications and Mobile Computing Conference (IWCMC)*, pages 1319 – 1324, 2013.

[LC99] Camila H. S. Oliveira, Yacine Ghamri-Doudane, Carlos E. F. de Brito, and **Stéphane Lohier**. Optimal Network Coding-based In-Network Data Storage and Data Retrieval for IoT/WSNs. In *International Symposium on Network Computing and Applications (NCA)*, pages 208–215. IEEE, 2015.

[LC100] Camila H. S. Oliveira, Yacine Ghamri-Doudane, Carlos E. F. de Brito, and **Stéphane Lohier**. Virtual Broking Coding for Reliable In-Network Storage on WSANs. In *Symposium on Computers and Communications (ISCC)*. IEEE, 2015.

[LC101] Camila H. S. Oliveira, Yacine Ghamri-Doudane, and **Stéphane Lohier**. A Duty Cycle Self-adaptation Algorithm for the 802.15.4 Wireless Sensor Networks. In *Global Information Infrastructure and Networking Symposium (GIIS)*. IEEE, 2013.

[LC102] Nazih Salhab, Salah Elfalou, Salah-Eddine Elayoubi, Rana Rahim, and **Rami Langar**. Optimization of the Implementation of Network Slicing in 5G RAN. In *MENACOMM*. IEEE, 2018.

[LC103] Luca Santinelli, Zhishan Guo, and **Laurent George**. Fault-aware sensitivity analysis for probabilistic real-time systems. In *Defect and Fault Tolerance in VLSI and Nanotechnology Systems Symposium (DFT)*, pages 69–74. IEEE, 2016.

[LC104] Philippe Thierry, **Laurent George**, and Jean-Marc Lacroix. A Framework for a secure embedded filtering connector for multi-criticality systronic systems. In *ETFA*, 2013.

[LC105] Ferdews Tlili, **Abderrezak Rachedi**, and Abderrahim Benslimane. Time-bounded Localization Algorithm based on Distributed Multidimensional Scaling for Wireless Sensor Networks. In *International Conference on Communications (ICC)*, pages x.1–x.7. IEEE, 2014.

[LC106] Marina Vinyes and **Guillaume Obozinski**. Fast column generation for atomic norm regularization. In *International Conference on Artificial Intelligence and Statistics*, 2017.

[LC107] Shuai YU, **Rami Langar**, and Xin Wang. A D2D-Multicast Based Computation Offloading Framework for Mobile Edge Computing. In *Global Communications Conference (GLOBECOM)*. IEEE, 2016.

[LC108] Shuai YU, Xin Wang, and **Rami Langar**. Computation Offloading for Mobile Edge Computing : A Deep Learning Approach. In *International Symposium on Personal, Indoor and Mobile Radio Communications : Mobile and Wireless Networks (PIMRC)*. IEEE, 2017.

[LC109] Alessandro Zanni, Se-Young Yu, Paolo BELLAVISTA, **Rami Langar**, and Stefano Secci. Automated Selection of Offloadable Tasks for Mobile Computation Offloading in Edge Computing. In *IFIP CNSM*. IEEE, 2017.

[LC110] Rafik Zitouni, Stefan Ataman, and **Laurent George**. RF Measurements of the RFX 900 and RFX 2400 Daughter Boards with the USRP N210 Driven by the GNU Radio Software. In *International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC)*. IEEE, 2013.

9.3 Articles publiés dans des workshops

[LW1] Alemayehu Desta, **Hakim Badis**, and **Laurent George**. Demand response scheduling in production lines constrained by available power. In *International Workshop on Integrating Communications, Control, and Computing Technologies for Smart Grid (ICT4SG)*, 2018.

[LW2] **Laurent George**, **Damien Masson**, and Vincent Nelis. Selective Real-Time Data Emission in Mobile Intelligent Transport Systems. In *5th International Workshop on Mixed Criticality Systems*, 2017.

[LW3] Tayeb Lemlouma, Sebastien Laborie, Philippe Roose, **Abderrezak Rachedi**, and Kenza Abdelaziz. mHealth Contents and Services Delivery and Adaptation Challenges for Smart Environments. In Sasan Adibi, editor, *mHealth Multidisciplinary Verticals*, pages 295–314. CRC Press/Taylor & Francis, November 2014. Chapitre 17.

[LW4] Tayeb Lemlouma, **Abderrezak Rachedi**, Sebastien Laborie, and Santos Antonio. IEEE eHPWAS : Fourth international IEEE workshop on e-health pervasive wireless applications and services. In IEEE, editor, *IEEE eHPWAS : Fourth international IEEE workshop on e-health pervasive wireless applications and services*, Proceeding og the 2016 IEEE 12th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), New York, United States, October 2016. Tayeb Lemlouma.

[LW5] Tayeb Lemlouma, **Abderrezak Rachedi**, Sebastien Laborie, Santos Antonio, and Philippe Roose. e-Health Pervasive Wireless Applications and Services Workshop. page 43. IEEE Press, October 2013. pp. 302-321, pp. 200-222.

[LW6] Tayeb Lemlouma, **Abderrezak Rachedi**, Sebastien Laborie, Santos Antonio, and Athanasios V. Vasilakos. IEEE eHPWAS : Fifth international IEEE workshop on e-health pervasive wireless applications and services. IEEE 13th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), France, October 2017. Tayeb Lemlouma.

[LW7] Tayeb Lemlouma, **Abderrezak Rachedi**, Sebastien Laborie, and Antonio Santos. e-Health Pervasive Wireless Applications and Services Workshop (eHPWAS'15). October 2015.

[LW8] **Serge Midonnet** and Achille Wattelar. A Processor Workload Distribution Algorithm for Massively Parallel Applications. In *International Symposium on Computer Architecture and High Performance Computing Workshops (SBAC-PADW)*. IEEE, 2016.

[LW9] Jerome Pilliet, Remi Forax, and **Gilles Roussel**. DualStack : improvement of invokedynamic implementation on Android. In *International Workshop on Java Technologies for Real-time and Embedded Systems (JTRES)*, pages 1–8, 2015.

[LW10] <u>Manar Qamhieh</u> and **Serge Midonnet**. Experimental Analysis of the Tardiness of Parallel Tasks in Soft Real-time Systems. In *Springer*, Workshop on Job Scheduling Strategies for Parallel Processing (JSSPP), page 17. IEEE and IPDPS, 2014.

[LW11] **Abderrezak Rachedi**. QoS and QoE in wireless communications and networks workshop. page 48, July 2013.

[LW12] **Abderrezak Rachedi** and Mubashir Husain Rehmani. QoS and QoE in Wireless Communications and Networks Workshop (QoS-QoE). August 2015.

[LW13] Kévin Rauscher, **Sylvain Cherrier**, Thomas Pape, and Yacine Ghamri-Doudane. MUST : Mutable State Transfer. IEEE Global Information Infrastructure and Networking Symposium (GIIS), October 2017.

[LW14] Paul Rodriguez, **Laurent George**, Yasmina Abdeddaïm, and Joël Goossens. Multicriteria evaluation of partitioned edf-vd for mixed-criticality systems upon identical processors. In *Workshop on Mixed Criticality Systems*, 2013.

[LW15] **Gilles Roussel**, Remi Forax, and Jerome Pilliet. Android 292 : implementing invokedynamic in Android. In *International Workshop on Java Technologies for Real-time and Embedded Systems (JTRES)*, pages 76–86, 2014.

[LW16] Alessandro Zanni, Se-Young Yu, Stefano Secci, **Rami Langar**, Paolo Bellavista, and Daniel Fernandes Macedo. Automated offloading of android applications for computation/energy-usage optimizations. In *IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)*, 2017.

[LW17] Rafik Zitouni, Stefan Ataman, Marie Mathian, and **<u>Laurent George</u>**. Radio frequency measurements on a SBX daughter board using GNU radio and USRP N-210. In *IEEE International Workshop on Measurements and Networking (M&N)*. IEEE, 2015.

IV

Équipe Modèles et Algorithmes

10 Journaux / Revues

10.1 Articles scientifiques

[MJ1] Serge Abiteboul, Marcelo Arenas, Pablo Barceló, Meghyn Bienvenu, Diego Calvanese, **Claire David**, Richard Hull, Eyke Hullermeier, Benny Kimelfeld, Leonid Libkin, Wim Martens, Tova Milo, Filip Murlak, Frank Neven, Magdalena Ortiz, Thomas Schwentick, Julia Stoyanovich, Jianwen Su, Dan Suciu, Victor Vianu, and Ke Yi. Research Directions for Principles of Data Management. *Dagstuhl Manifestos*, 7(1) :1–29, 2018.

[MJ2] Shun'ichi Amano, **Claire David**, Leonid Libkin, and Filip Murlak. XML schema mappings : Data exchange and metadata management. *J. ACM*, 61(2) :12 :1–12 :48, 2014.

[MJ3] Mika Amit, **Maxime Crochemore**, Gad Landau, and Dina Sokol. Locating maximal approximate runs in a string. *Theoretical Computer Science*, 700 :45–62, 2017.

[MJ4] Alberto Apostolico, **Maxime Crochemore**, Martin Farach-Colton, Zvi Galil, and S. Muthukrishnan. 40 years of suffix trees. *Commun. ACM*, 59(4) :66–73, 2016.

[MJ5] Boris Aronov, Otfried Cheong, Michael Gene Dobbins, and **Xavier Goaoc**. The Number of Holes in the Union of Translates of a Convex Set in Three Dimensions. *Discrete and Computational Geometry*, 57(1) :104 – 124, 2017.

[MJ6] Nathalie Aubrun and **Marie-Pierre Béal**. Sofic Tree-Shifts. *Theory of Computing Systems*, 53(4) :621–644, 2013.

[MJ7] Nathalie Aubrun and **Marie-Pierre Béal**. Tree algebra of sofic tree languages. *RAIRO - Theoretical Informatics and Applications (RAIRO : ITA)*, 48(4) :431–451, 2014.

[MJ8] Marie-Aude Aufaure, Raja Chiky, **Olivier Curé**, Houda Khrouf, and Gabriel Képéklian. From Business Intelligence to semantic data stream management. *Future Generation Computer Systems*, 63 :100 – 107, October 2016.

[MJ9] Golnaz Badkobeh and **Maxime Crochemore**. Infinite binary words containing repetitions of odd period. *Inf. Process. Lett.*, 115(5) :543–547, 2015.

[MJ10] Golnaz Badkobeh and **Maxime Crochemore**. Computing maximal-exponent factors in an overlap-free word. *J. Comput. Syst. Sci.*, 82(3) :477–487, 2016.

[MJ11] Golnaz Badkobeh, **Maxime Crochemore**, and Robert Mercas. Counting maximal-exponent factors in words. *Theor. Comput. Sci.*, 658 :27–35, 2017.

[MJ12] Golnaz Badkobeh, **Maxime Crochemore**, Manal Mohamed, and Chalita Toopsuwan. Efficient computation of maximal anti-exponent in palindrome-free strings. *Theor. Comput. Sci.*, 656 :241–248, 2016.

[MJ13] Golnaz Badkobeh, **Maxime Crochemore**, and Michaël Rao. Finite repetition threshold for large alphabets. *RAIRO - Theor. Inf. and Applic.*, 48(4) :419–430, 2014.

[MJ14] Frédérique Bassino, Mathilde Bouvel, Adeline Pierrot, **Carine Pivoteau**, and Dominique Rossin. An algorithm computing combinatorial specifications of permutation classes. *Discrete Applied Mathematics*, 224 :16–44, 2017.

[MJ15] Frédérique Bassino, Armando Martino, **Cyril Nicaud**, Enric Ventura, and Pascal Weil. Statistical properties of subgroups of free groups. *Random Structures and Algorithms*, 42 :349–373, 2013.

[MJ16] Frédérique Bassino, **Cyril Nicaud**, and Pascal Weil. On the genericity of Whitehead minimality. *Journal of Group Theory*, 19(1) :137–159, 2016.

[MJ17] **Marie-Pierre Béal**, Michel Blockelet, and Catalin Dima. Sofic-Dyck shifts. *Theoretical Computer Science*, 609 :226 – 244, January 2016.

[MJ18] **Marie-Pierre Béal** and Pavel Heller. Shifts of k-nested sequences . *Theoretical Computer Science*, 658 :18–26, 2016.

[MJ19] **Marie-Pierre Béal** and **Dominique Perrin**. A quadratic algorithm for road coloring. *Discrete Applied Mathematics*, 169(-) :15–29, 2014.

[MJ20] Valérie Berthé, Clelia De Felice, Francesco Dolce, Julien Leroy, **Dominique Perrin**, Christophe Reutenauer, and **Giuseppina Rindone**. Acyclic, connected and tree sets. *Monatshefte für Mathematik*, page 521–550, 2015.

[MJ21] Valérie Berthé, Clelia De Felice, Francesco Dolce, Julien Leroy, **Dominique Perrin**, Christophe Reutenauer, and **Giuseppina Rindone**. Bifix codes and interval exchanges. *Journal of Pure and Applied Algebra*, 2015.

[MJ22] Valérie Berthé, Clelia De Felice, Francesco Dolce, Julien Leroy, **Dominique Perrin**, Christophe Reutenauer, and **Giuseppina Rindone**. Maximal bifix decoding. *Contributions to Discrete Mathematics*, 338(5) :725–742, 2015.

[MJ23] Valérie Berthé, Clelia De Felice, Francesco Dolce, Julien Leroy, **Dominique Perrin**, Christophe Reutenauer, and **Giuseppina Rindone**. The finite index basis property. *Journal of Pure and Applied Algebra*, 2015.

[MJ24] Valérie Berthé, Vincent Delecroix, Francesco Dolce, **Dominique Perrin**, Christophe Reutenauer, and **Giuseppina Rindone**. Return words of linear involutions and fundamental groups. *Ergodic Theory and Dynamical Systems*, 37 :693–715, 2017.

[MJ25] **Guillaume Blin**, Paola Bonizzoni, Riccardo Dondi, Romeo Rizzi, and Florian Sikora. Complexity Insights of the Minimum Duplication Problem. *Theoretical Computer Science*, 530 :66–79, 2014.

[MJ26] **Guillaume Blin**, Romeo Rizzi, Florian Sikora, and **Stéphane Vialette**. Minimum Mosaic Inference of a Set of Recombinants. *International Journal of Foundations of Computer Science*, 24(1) :51–66, 2013.

[MJ27] Karel Břinda, Valentina Boeva, and **Gregory Kucherov**. Rnf : a general framework to evaluate ngs read mappers. *Bioinformatics*, 32(1) :136–139, 2016.

[MJ28] Karel Brinda, Maciej Sykulski, and **Gregory Kucherov**. Spaced seeds improve k-mer-based metagenomic classification. *Bioinformatics*, 2015.

[MJ29] **Laurent Bulteau**, Stefan Fafianie, Vincent Froese, Rolf Niedermeier, and Nimrod Talmon. The Complexity of Finding Effectors. *Theory of Computing Systems*, 60(2) :253–279, 2017.

[MJ30] **Laurent Bulteau**, Guillaume Fertin, and Christian Komusiewicz. (prefix) reversal distance for (signed) strings with few blocks or small alphabets. *Journal of Discrete Algorithms*, 37 :44–55, 2016.

[MJ31] **Laurent Bulteau**, Guillaume Fertin, and Eric Tannier. Genome rearrangements with indels in intergenes restrict the scenario space. *BMC Bioinformatics*, 17 :426–433, 2016.

[MJ32] **Laurent Bulteau**, Guillaume Fertin, **Stéphane Vialette**, and Roméo Rizzi. Some algorithmic results for [2]-sumset covers. *Information Processing Letters*, 115(1) :1–5, January 2015.

[MJ33] **Laurent Bulteau**, Vincent Froese, Sepp Hartung, and Rolf Niedermeier. Co-Clustering under the Maximum Norm. *Algorithms*, 9(1) :15 – 17, 2016.

[MJ34] **Laurent Bulteau**, Vincent Froese, and Nimrod Talmon. Multi-Player Diffusion Games on Graph Classes. *Internet Mathematics*, 12(6) :363 – 380, 2016.

[MJ35] **Arnaud Carayol** and Zoltán Ésik. The FC-rank of a context-free language. *Information Processing Letters*, 113(8) :285–287, April 2013.

[MJ36] **Arnaud Carayol** and Zoltán Ésik. An analysis of the equational properties of the well-founded fixed point. *Journal of Logical and Algebraic Methods in Programming*, 86(1) :308–318, 2017.

[MJ37] **Arnaud Carayol**, Axel Haddad, and Olivier Serre. Randomisation in Automata on Infinite Trees. *ACM Transactions on Computational Logic*, 15(3) :24, 2014.

[MJ38] **Arnaud Carayol**, Christof Löding, and Olivier Serre. Pure Strategies in Imperfect Information Stochastic Games. *Fundamenta Informaticae*, 160(4) :361 – 384, July 2018.

[MJ39] **Arnaud Carayol** and Olivier Serre. Marking shortest paths on pushdown graphs does not preserve MSO decidability. *Information Processing Letters*, 116(10) :638–643, 2016.

[MJ40] **Arnaud Carayol** and Olivier Serre. Counting Branches in Trees Using Games. *Information and Computation*, 252 :221–242, 2017.

[MJ41] Vincent Carnino and Sylvain Lombardy. Factorizations and universal automaton of omega languages. *International Journal of Foundations of Computer Science*, 25(8) :1111–1125, 2014.

[MJ42] Vincent Carnino and Sylvain Lombardy. On Determinism and Unambiguity of Weighted Two-Way Automata. *International Journal of Foundations of Computer Science*, 26(8) :1127–1146, December 2015.

[MJ43] João A. Carriço, **Maxime Crochemore**, Alexandre P. Francisco, Solon P. Pissis, Bruno Ribeiro-Gonçalves, and Cátia Vaz. Fast phylogenetic inference from typing data. *Algorithms for Molecular Biology*, 13(1) :4 :1–4 :14, 2018.

[MJ44] **Didier Caucal** and Teodor Knapik. Shelah-Stupp's iteration and Muchnik's iteration. *Fundamenta Informaticae*, 159(4) :327–359, 2018.

[MJ45] Rosa Cetro, Marc M. Barbier, Philippe P. Breucker, Hilde Eggermont, **Philippe Gambette**, **Tita Kyriacopoulou**, Xavier Le Roux, Claude Martineau, and Nicolas N. Turenne. Vers une approche semi-automatique pour la définition de motifs d'argumentation utilisés dans les résumés de projets scientifiques du domaine de la biodiversité. *Revue des Nouvelles Technologies de l'Information*, RNTI-SHS-2 :47–80, 2014.

[MJ46] Otfried Cheong, **Xavier Goaoc**, and **Cyril Nicaud**. Set Systems and Families of Permutations with Small Traces. *European Journal of Combinatorics*, 34 :229–239, 2013.

[MJ47] Manolis Christodoulakis, Michalis Christou, **Maxime Crochemore**, and Costas S. Iliopoulos. Overlapping factors in words. *Australasian J. Combinatorics*, 57 :49–64, 2013.

[MJ48] Manolis Christodoulakis, Michalis Christou, **Maxime Crochemore**, and Costas S. Iliopoulos. Abelian borders in binary words. *Discrete Applied Mathematics*, 171 :141–146, 2014.

[MJ49] Manolis Christodoulakis, Michalis Christou, **Maxime Crochemore**, and Costas S. Iliopoulos. On the average number of regularities in a word. *Theor. Comput. Sci.*, 525 :3–9, 2014.

[MJ50] M. Christou, **Maxime Crochemore**, C.S. Iliopoulos, M. Kubica, S.P. P Pissis, J. Radoszewski, W. Rytter, B. Szreder, and T. Waleń. Efficient seed computation revisited. *Theoretical Computer Science*, 483 :171 – 181, April 2013.

[MJ51] Michalis Christou, **Maxime Crochemore**, and Costas S. Iliopoulos. Quasiperiodicities in fibonacci strings. *Ars Comb.*, 129 :211–225, 2016.

[MJ52] **Éric Colin de Verdière**. Multicuts in planar and bounded-genus graphs with bounded number of terminals. *Algorithmica*, 78(4) :1206–1224, 2017.

[MJ53] **Éric Colin de Verdière**, Grégory Ginot, and **Xavier Goaoc**. Helly numbers of acyclic families. *Advances in Mathematics*, 253 :163–193, 2014.

[MJ54] **Éric Colin de Verdière**, **Alfredo Hubard**, and Arnaud de Mesmay. Discrete systolic inequalities and decompositions of triangulated surfaces. *Discrete and Computational Geometry*, 53(3) :587–620, 2015.

[MJ55] **Éric Colin de Verdière**, Vojtech Kaluza, Pavel Paták, Zuzana Patáková, and Martin Tancer. A direct proof of the strong Hanani-Tutte theorem on the projective plane. *Journal of Graph Algorithms and Applications (JGAA)*, 21(5) :939 – 981, 2017.

[MJ56] Carlo Comin, Roberto Posenato, and Romeo Rizzi. Hyper Temporal Networks. *Constraints*, 22(2) :152–190, April 2017.

[MJ57] Carlo Comin and Romeo Rizzi. Improved Pseudo-polynomial Bound for the Value Problem and Optimal Strategy Synthesis in Mean Payoff Games. *Algorithmica*, 77(4) :995–1021, April 2017.

[MJ58] Carlo Comin and Romeo Rizzi. Checking dynamic consistency of conditional hyper temporal networks via mean payoff games. *Information and Computation*, 259(3) :348–374, 2018.

[MJ59] **Mathieu Constant**, Olivier Blanc, and Patrick Watrin. Accounting for Contiguous Multiword Expressions in Shallow Parsing. *The Prague Bulletin of Mathematical Linguistics*, 99(-) :59–75, April 2013.

[MJ60] **Mathieu Constant**, Anthony Sigogne, and Joseph Le Roux. Combining Compound Recognition and PCFG-LA Parsing with Word Lattices and Conditional Random Fields. *ACM - Transactions on Speech and Language Processing*, 10(3) :8.1–8.24, June 2013.

[MJ61] **Mathieu Constant**, Anthony Sigogne, and Patrick Watrin. Stratégies discriminantes pour intégrer la reconnaissance des mots composés dans un analyseur syntaxique en constituants. *Traitement Automatique des Langues*, 54(1) :47–70, October 2013.

[MJ62] Christophe Crespelle and **Philippe Gambette**. (Nearly-)tight bounds on the contiguity and linearity of cographs. *Theoretical Computer Science*, 522 :1–12, 2014.

[MJ63] **Maxime Crochemore**, Chiara Epifanio, Roberto Grossi, and Filippo Mignosi. Linear-size suffix tries. *Theoretical Computer Science*, 638 :171 – 178, 2016.

[MJ64] **Maxime Crochemore**, Roberto Grossi, Juha Kärkkäinen, and Gad M. Landau. Computing the burrows-wheeler transform in place and in small space. *J. Discrete Algorithms*, 32 :44–52, 2015.

[MJ65] **Maxime Crochemore**, Lucian Ilie, Costas Iliopoulos, Marcin Kubica, Wojciech Rytter, and Tomasz Waleń. Computing the Longest Previous Factor. *European Journal of Combinatorics*, 34(1) :15 – 26, January 2013.

[MJ66] **Maxime Crochemore**, Costas S. Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Alessio Langiu, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Order-preserving indexing. *Theor. Comput. Sci.*, 638 :122–135, 2016.

[MJ67] **Maxime Crochemore**, Costas S. Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Alessio Langiu, Jakub Radoszewski, Wojciech Rytter, Bartosz Szreder, and Tomasz Walen. A note on the longest common compatible prefix problem for partial words. *J. Discrete Algorithms*, 34 :49–53, 2015.

[MJ68] **Maxime Crochemore**, Costas S. Iliopoulos, Tomasz Kociumaka, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Covering problems for partial words and for indeterminate strings. *Theor. Comput. Sci.*, 698 :25–39, 2017.

[MJ69] **Maxime Crochemore**, Costas S. Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, Krzysztof Stencel, and Tomasz Walen. New simple efficient algorithms computing powers and runs in strings. *Discrete Applied Mathematics*, 163 :258–267, 2014.

[MJ70] **Maxime Crochemore**, Costas S. Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Extracting powers and periods in a word from its runs structure. *Theor. Comput. Sci.*, 521 :29–41, 2014.

[MJ71] **Maxime Crochemore**, Costas S. Iliopoulos, Ritu Kundu, Manal Mohamed, and Fatima Vayani. Linear algorithm for conservative degenerate pattern matching. *Eng. Appl. of AI*, 51 :109–114, 2016.

[MJ72] **Maxime Crochemore**, Costas S. Iliopoulos, Alessio Langiu, and Filippo Mignosi. The longest common substring problem. *Mathematical Structures in Computer Science*, 27(2) :277–295, 2017.

[MJ73] **Maxime Crochemore**, S Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Alessio Langiu, Solon Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Order-Preserving Indexing. *Theoretical Computer Science*, 2016.

[MJ74] **Maxime Crochemore**, Alessio Langiu, and Filippo Mignosi. Note on the greedy parsing optimality for dictionary-based text compression. *Theor. Comput. Sci.*, 525 :55–59, 2014.

[MJ75] **Maxime Crochemore**, Alessio Langiu, and M. Sohel Rahman. Indexing a sequence for mapping reads with a single mismatch. *Philosophical Transactions of the Royal Society A : Mathematical, Physical and Engineering Sciences*, 2(20130167) :1–18, 2014.

[MJ76] **Maxime Crochemore** and Robert Mercas. On the density of lyndon roots in factors. *Theor. Comput. Sci.*, 656 :234–240, 2016.

[MJ77] **Maxime Crochemore** and Solon P. Pissis. Advances in algorithms & combinatorics on strings (honoring 60th birthday for prof. costas s. iliopoulos). *Theor. Comput. Sci.*, 710 :1, 2018.

[MJ78] **Maxime Crochemore**, Costas S. Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Jakub Pachocki, Jakub Radoszewski, Wojciech Rytter, Wojciech Tyczynski, and Tomasz Walen. A note on efficient computation of all Abelian periods in a string. *Information Processing Letters*, 113(3) :74–77, 2013.

[MJ79] **Olivier Curé**. On the design of a self-medication web application built on linked open data. *Web Semantics : Science, Services and Agents on the World Wide Web*, 24 :27 – 32, January 2014.

[MJ80] **Olivier Curé**, Fadhela Kerdjoudj, David Faye, Chan Le Duc, and Myriam Lamolle. On The Potential Integration of an Ontology-Based Data Access Approach in NoSQL Stores. *International Journal of Distributed Systems and Technologies (IJDST)*, 4(3) :17 – 30, 2013.

[MJ81] **Olivier Curé**, Henri Maurer, Nigam Shah, and Paea Le Pendu. A formal concept analysis and semantic query expansion cooperation to refine health outcomes of interest. *BMC Medical Informatics and Decision Making*, 15(S1), December 2015.

[MJ82] Wojciech Czerwiński, **Claire David**, Katja Losemann, and Wim Martens. Deciding definability by deterministic regular expressions. *Journal of Computer and System Sciences*, 88 :75–89, 2017.

[MJ83] Wojciech Czerwiński, **Claire David**, Filip Murlak, and Pawel Parys. Reasoning about integrity constraints for tree-structured data. *Theory of Computing Systems*, 62(4) :941–976, 2018.

[MJ84] Laurence Danlos, Quentin Pradet, Lucie Barque, **Takuya Nakamura**, and **Mathieu Constant**. Un verbenet du français. *Traitement Automatique des Langues*, 57(1) :25, 2016.

[MJ85] Sven De Felice and **Cyril Nicaud**. Average Case Analysis of Brzozowski's Algorithm. *International Journal of Foundations of Computer Science*, 27(02) :109–126, 2016.

[MJ86] Olivier Devillers, Marc Glisse, **Xavier Goaoc**, and Rémy Thomasse. Smoothed complexity of convex hulls by witnesses and collectors. *Journal of Computational Geometry*, 7(2) :101–144, 2016.

[MJ87] Michael G. Dobbins, Andreas F. Holmsen, and **Alfredo Hubard**. Regular systems of paths and families of convex sets in convex position. *Transactions of the American Mathematical Society*, July 2015.

[MJ88] Francesco Dolce and **Dominique Perrin**. Neutral and tree sets of arbitrary characteristic. *Theoretical Computer Science*, 658(part A) :159–174, 2017.

[MJ89] Riccardo Dondi, Guillaume Fertin, and **Stéphane Vialette**. Finding Approximate and Constrained Motifs in Graphs. *Theoretical Computer Science*, 483(-) :10–21, 2013.

[MJ90] Robert Engström, Tommy Färnqvist, Peter Jonsson, and **Johan Thapper**. An approximability-related parameter on graphs—properties and applications. *Discrete Mathematics and Theoretical Computer Science*, Vol. 17 no. 1 (in progress)(1) :33–66, February 2015. Graph Theory.

[MJ91] Guillaume Fertin, Irena Rusu, and **Stéphane Vialette**. The S-labeling problem : An algorithmic tour. *Discrete Applied Mathematics*, 246 :49–61, 2018.

[MJ92] Evangelia Fista, **Tita Kyriacopoulou**, and Eleni Tziafa. Extension du dictionnaire électronique grec de termes boursiers à partir d'un corpus spécialisé. *Echo des études romanes.*, IX(2) :35–45, 2013.

[MJ93] **Philippe Gambette**, Andreas D.M. Gunawan, **Anthony Labarre**, **Stéphane Vialette**, and Louxin Zhang. Solving the tree containment problem in linear time for nearly stable phylogenetic networks. *Discrete Applied Mathematics*, 246 :62–79, 2018.

[MJ94] **Philippe Gambette**, Katharina Huber, and Steven Kelk. On the challenge of reconstructing level-1 phylogenetic networks from triplets and clusters. *Journal of Mathematical Biology*, 74(7) :1729–1751, 2017.

[MJ95] **Philippe Gambette**, Katharina Huber, and Guillaume Scholz. Uprooted Phylogenetic Networks. *Bulletin of Mathematical Biology*, 79(9) :2022–2048, 2017.

[MJ96] **Philippe Gambette** and William Martinez. L'affaire du Mediator au prisme de la texto-métrie. *Texto ! Textes et Cultures*, XVIII(4) :3318.1–3318.9, 2013. http ://www.revue-texto.net/index.php ?id=3318.

[MJ97] **Philippe Gambette**, Leo Van Iersel, Mark Jones, Manuel Lafond, Fabio Pardi, and Celine Scornavacca. Rearrangement moves on rooted phylogenetic networks. *PLoS Computational Biology*, 13(8) :e1005611.1–21, 2017.

[MJ98] **Philippe Gambette**, Leo Van Iersel, Steven Kelk, Fabio Pardi, and Celine Scornavacca. Do branch lengths help to locate a tree in a phylogenetic network ? *Bulletin of Mathematical Biology*, 78(9) :1773–1795, 2016.

[MJ99] **Samuele Giraudo** and **Stéphane Vialette**. Algorithmic and algebraic aspects of unshuf-fling permutations. *Theoretical Computer Science*, 729 :20 – 41, June 2018.

[MJ100] Annie Glatigny, **Philippe Gambette**, Alexa Bourand-Plantefol, Geneviève Dujardin, and Marie-Hélène Mucchielli-Giorgi. Development of an in silico method for the identification of subcomplexes involved in the biogenesis of multiprotein complexes in Saccharomyces cerevisiae. *BMC Systems Biology*, 11(67) :1–12, 2017.

[MJ101] **Xavier Goaoc**, Isaac Mabillard, Pavel Paták, Zuzana Patáková, Martin Tancer, and Uli Wagner. On Generalized Heawood Inequalities for Manifolds : A Van Kampen–Flores-type Nonembeddability Result. *Israël Journal of Mathematics*, 222(2) :841–866, 2017.

[MJ102] **Xavier Goaoc**, Jiří Matoušek, Pavel Paták, Zuzana Safernová, and Martin Tancer. Sim-plifying Inclusion–Exclusion Formulas. *Combinatorics, Probability and Computing*, 24(02) :438 – 456, 2015.

[MJ103] Simona Grusea and **Anthony Labarre**. The distribution of cycles in breakpoint graphs of signed permutations. *Discrete Applied Mathematics*, 161(10-11) :1448–1466, 2013.

[MJ104] Simona Grusea and **Anthony Labarre**. Asymptotic normality and combinatorial aspects of the prefix exchange distance distribution. *Advances in Applied Mathematics*, 78 :94–113, 2016.

[MJ105] Jae-Soon Ha, Otfried Cheong, **Xavier Goaoc**, and Jungwoo Yang. Geometric permu-tations of non-overlapping unit balls revisited. *Computational Geometry*, 53 :36–50, 2016.

[MJ106] **Alfredo Hubard**, Vojtech Kaluza, Arnaud de Mesmay, and Martin Tancer. Shortest path embeddings of graphs on surfaces. *Discrete and Computational Geometry*, 58(4) :921–945, June 2017.

[MJ107] Peter Jonsson and **Johan Thapper**. Constraint Satisfaction and Semilinear Expansions of Addition over the Rationals and the Reals. *Journal of Computer and System Sciences*, 82(5) :912 – 928, August 2016.

[MJ108] Peter Jonsson and **Johan Thapper**. Tractability conditions for numeric CSPs. *Theoretical Computer Science*, 715 :21 – 34, March 2018.

[MJ109] Alice Julien-Laferrière, **Laurent Bulteau**, Delphine Parrot, Alberto Marchetti-Spaccamela, Leen Stougie, Susana Vinga, Arnaud Mary, and Marie-France Sagot. A Combinatorial Algorithm for Microbial Consortia Synthetic Design. *Scientific Reports*, July 2016.

[MJ110] Yury Kartynnik and Andrew Ryzhikov. On minimum maximal distance-k matchings. *Discrete Mathematics & Theoretical Computer Science*, 20(1), 2018.

[MJ111] Vladimir Kolmogorov, **Johan Thapper**, and Stanislav Živný. The Power of Linear Programming for General-Valued CSPs. *SIAM Journal on Computing*, 44(1) :1 − 36, January 2015.

[MJ112] Tsvi Kopelowitz, **Gregory Kucherov**, Yakov Nekrich, and Tatiana Starikovskaya. Cross-Document Pattern Matching. *Journal of Discrete Algorithms*, 24 :40–47, 2014.

[MJ113] Mikhail Y. Kovalyov, Erwin Pesch, and Andrew Ryzhikov. A note on scheduling container storage operations of two non-passing stacking cranes. *Networks*, 71(3) :271–280, 2018.

[MJ114] **Gregory Kucherov**. On-line construction of position heaps. *Journal of Discrete Algorithms*, 20(May) :3–11, 2013.

[MJ115] **Gregory Kucherov** and Yakov Nekrich. Full-fledged real-time indexing for constant size alphabets. *Algorithmica*, 79(2) :387–400, 2017.

[MJ116] **Gregory Kucherov**, Kamil Salikhov, and Dekel Tsur. Approximate string matching using a bidirectional index. *Theoretical Computer Science*, 638 :145–158, 2016.

[MJ117] **Gregory Kucherov**, Lilla Tóthmérész, and **Stéphane Vialette**. On the combinatorics of suffix arrays. *Information Processing Letters*, 113(22-24) :915–920, September 2013.

[MJ118] **Tita Kyriacopoulou** and Claude Martineau. Extraction de " segments complexes " : enrichissement des dictionnaires. *Études de linguistique appliquée : revue de didactologie des langues-cultures*, octobre-décembre 2015(180) :407–416, 2015.

[MJ119] **Tita Kyriacopoulou**, Claude Martineau, and Cristian Martinez. UNITEX/GRAMLAB : plateforme libre basée sur des lexiques et des grammaires pour le traitement des corpus textuels. *Revue des Nouvelles Technologies de l'Information*, RNTI-E34 :467–470, January 2018.

[MJ120] **Tita Kyriacopoulou**, Olympia Tsaknaki, and Eleni Tziafa. (Mis)understanding Memoranda of Understanding. *Procedia - Social and Behavioral Sciences*, 95, October 2013.

[MJ121] **Anthony Labarre**. Lower bounding edit distances between permutations. *Siam Journal on Discrete Mathematics*, 27(3) :1410–1428, 2013.

[MJ122] **Anthony Labarre** and Sicco Verwer. Merging partially labelled trees : hardness and a declarative programming solution. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 11(2) :389–397, 2014.

[MJ123] François Laroussinie, **Antoine Meyer**, and Eudes Petonnet. Counting ctl. *Logical Methods in Computer Science*, 9(1) :3.1–3.34, 2013. 34 pages.

[MJ124] Nadège Lechevrel and **Philippe Gambette**. A Textometrical Approach to Study the Transmission of Biological Knowledge in the XIXth Century. *Nouvelles perspectives en sciences sociales*, 12(1) :221–253, 2016.

[MJ125] Hyeran Lee, **Philippe Gambette**, Frederique Gayraud, and Melissa Barkat-Defradas. Élaboration d'un outil d'évaluation des performances en dénomination pour les patients bilingues atteints de la maladie d'Alzheimer. *Rééducation orthophonique*, 253 :143–152, 2013.

[MJ126] Paul Morel, Ryan Thomas Flynn, Edgar Gelover, **Guillaume Blin**, **Stéphane Vialette**, Xiadong Wu, and Dongxu Wang. Mspt : An open-source motion simulator for proton therapy. *Biomedical Physics & Engineering Express*, 1(3) :12 pp., 2015.

[MJ127] Paul Morel, Xiadong Wu, **Guillaume Blin**, **Stéphane Vialette**, Ryan Flynn, Daniel Hyer, and Dongxu Wang. Spot Weight Adaptation for Moving Target in Spot Scanning Proton Therapy. *Frontiers in Oncology*, 5(119) :1–7, May 2015.

[MJ128] **Takuya Nakamura**. Sur les constructions de la forme "SN se faire ADV". *Langages*, (194) :95–106, June 2014.

[MJ129] **Takuya Nakamura**. On the possible origin of lexicon-grammar tables : speculations from an unpublished manuscript of Zellig Harris. In *Perspectives harrissiennes*. Cellule de recherche en linguistique, 2016.

[MJ130] **Takuya Nakamura**. Transitive extensions of specificational constructions. *Langue française*, 2017/2(194) :69–83, 2017.

[MJ131] **Takuya Nakamura** and Christiane Marque-Pucheu. "à un point X" construction in relation to "à quel point" exclamation. *SHS Web of Conferences*, 46 :12014.1–18, July 2018.

[MJ132] Alexis Amid Neme. A fully inflected Arabic verb resource constructed constructed from a lexicon of lemmas by using finite-state transducers. *Revue RIST : revue de l'information scientifique et technique*, 20(2) :13, June 2013.

[MJ133] Alexis Amid Neme. Why Microsoft Arabic Spell checker is ineffective. *Linguistica Communicatio*, 16 :55, 2014.

[MJ134] Alexis Amid Neme and **Eric Laporte**. Pattern-and-root inflectional morphology : the arabic broken plural. *Language Sciences*, 40 :221–250, 2013.

[MJ135] Both Emerite Neou, Romeo Rizzi, and **Stéphane Vialette**. Permutation Pattern matching in (213, 231)-avoiding permutations. *Discrete Mathematics and Theoretical Computer Science*, 18(2) :#14.1–22, 2017.

[MJ136] **Dominique Perrin**. Completely reducible sets. *International Journal of Algebra and Computation*, 23(4) :915–942, 2013.

[MJ137] **Dominique Perrin** and Christophe Reutenauer. Hall sets, Lazard sets and comma-free codes. *Discrete Mathematics*, 341(1) :232–243, 2018.

[MJ138] Larissa Picoli, Juliana Pinheiro Campos Pirovani, Elias Silva de Oliveira, and **Eric Laporte**. Using a natural language processing tool to assist the collection of samples for the study of syntactic-semantic properties of verbs. *Linguamática*, 7(2) :35–44, December 2015.

[MJ139] Tamar Pinhas, Nimrod Milo, **Gregory Kucherov**, and Michal Ziv-Ukelson. Algorithms for path-constrained sequence alignment. *Journal of Discrete Algorithms*, 24 :48–58, 2014.

[MJ140] Xiangnan Ren, **Olivier Curé**, Li Ke, Jérémy Lhez, Badre Belabbess, Tendry Randriamalala, Yufan Zheng, and Gabriel Képéklian. Strider : An Adaptive, Inference-enabled Distributed RDF Stream Processing Engine. *Proceedings of the VLDB Endowment (PVLDB)*, 10(12) :1905 – 1908, August 2017.

[MJ141] Romeo Rizzi and **Stéphane Vialette**. On recognising words that are squares for the shuffle product. *Theoretical Computer Science*, April 2017.

[MJ142] Andrew Ryzhikov and Anton Shemyakov. Subset synchronization in monotonic automata. *Fundam. Inform.*, 162(2-3) :205–221, 2018.

[MJ143] Kamil Salikhov, Gustavo Sacomoto, and **Gregory Kucherov**. Using cascading bloom filters to improve the memory usage for de brujin graphs. *Algorithms for Molecular Biology*, 9(1) :2, 2014.

[MJ144] Lionel Spinelli, **Philippe Gambette**, Charles E. Chapple, Benoît Robisson, Anaïs Baudot, Henri Garreta, Laurent Tichit, Alain Guénoche, and Christine Brun. Clust&See : A Cytoscape plugin for the identification, visualization and manipulation of network clusters. *BioSystems*, 113(2) :91–93, 2013.

[MJ145] **Johan Thapper** and Stanislav Zivny. Necessary Conditions for Tractability of Valued CSPs. *Siam Journal on Discrete Mathematics*, 29(4) :2361 – 2384, January 2015.

[MJ146] **Johan Thapper** and Stanislav Živný. The Complexity of Finite-Valued CSPs. *Journal of the ACM (JACM)*, 63(4) :1 – 33, November 2016.

[MJ147] **Johan Thapper** and Stanislav Živný. The Power of Sherali–Adams Relaxations for General-Valued CSPs. *SIAM Journal on Computing*, 46(4) :1241 – 1279, 2017.

[MJ148] **Johan Thapper** and Stanislav Živný. The Limits of SDP Relaxations for General-Valued CSPs. *ACM Transactions on Computation Theory*, 10(3) :1 – 22, 2018.

[MJ149] René Van Bevern, Robert Bredereck, **Laurent Bulteau**, Jiehua Chen, Vincent Froese, Rolf Niedermeier, and Gerhard J. Woeginger. Partitioning perfect graphs into stars. *Journal of Graph Theory*, 85(2) :297–335, 2017.

10.2 Articles de synthèse / revues bibliographiques

[MS1] Jean Berstel, Luc Boasson, Olivier Carton, and **Isabelle Fagnot**. Minimization of Automata. In *Handbook "Automata : from Mathematics to Applications"*. 2018.

[MS2] L. Boasson, Paola Bonizzoni, Clelia De Felice, **Isabelle Fagnot**, Gabriele Fici, Rocco Zaccagnino, and Rosalba Zizza. Splicing Systems from Past to Future : Old and New Challenges. In *Discrete Mathematics and Computer Science. Papers in Memoriam Alexandru Mateescu (1952-2005). The Publishing House of the Romanian Academy, 2014. ISBN : 978-973-27-2470-5*. 2014.

[MS3] Catherine Camugli Gallardo and **Takuya Nakamura**. Presentation. The middle : Linguistic data and theoretical reflections. *Langages*, (194) :3–8, 2014.

[MS4] **Éric Colin de Verdière**. Computational topology of graphs on surfaces. In *Handbook of Discrete and Computational Geometry, third edition*. 2018.

[MS5] **Maxime Crochemore** and Thierry Lecroq. Pattern matching and text compression algorithms. In *Computing Handbook, Third Edition : Computer Science and Software Engineering*, pages 15 : 1–57. 2014.

[MS6] **Xavier Goaoc**, Pavel Paták, Zuzana Patáková, Martin Tancer, and Uli Wagner. Bounding Helly Numbers via Betti Numbers. In Robin Thomas Martin Loebl, Jaroslav Nešetřil, editor, *A Journey Through Discrete Mathematics : A Tribute to Jiří Matoušek*, pages 407–447. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2017.

[MS7] **Eric Laporte**. The Science of Linguistics. *Inference : International Review of Science*, 1(2) :1, 2015.

[MS8] **Dominique Perrin** and Antonio Restivo. Enumerative combinatorics on words. In Miklos Bona, editor, *Handbook of Enumerative Combinatorics*. CRC Press, 2015.

11 Ouvrages

11.1 Direction et coordination d'ouvrages / édition scientifique

[MDO1] Catherine Camugli Gallardo and **Takuya Nakamura**. *Le moyen : données linguistiques et réflexions théoriques*. Number 194 in Le moyen : données linguistiques et réflexions théoriques. Larousse/Armand Colin, 2014.

[MDO2] **Olivier Curé** and **Guillaume Blin**. *RDF Database Systems, 1st Edition*. Morgan Kaufmann, November 2014.

[MDO3] **Eric Laporte**, Aucione D. Smarsaro, and Oto Araújo Vale. *Dialogar é preciso*, volume 1. PPGEL/UFES, 2013.

11.2 Chapitres d'ouvrage

[MCO1] Valérie Berthé, Clelia De Felice, Vincent Delecroix, Francesco Dolce, Julien Leroy, **Dominique Perrin**, Christophe Reutenauer, and **Giuseppina Rindone**. Specular Sets. In *Combinatorics on Words*. 2015.

[MCO2] Svetla Koeva, Cvetana Krstev, Duško Vitas, **Tita Kyriacopoulou**, Claude Martineau, and Tsvetana Dimitrova. Semantic and syntactic patterns of multiword names : A cross-language study. In *Multiword expressions : Insights from a multi-lingual perspective*, Phraseology and Multiword Expressions, pages 31–62. Language Science Press, May 2018.

[MCO3] **Tita Kyriacopoulou** and Claude Martineau. L'évolution des dictionnaires électroniques. In $\alpha\nu\theta\eta$ $\rho\epsilon\beta\nu\theta\iota\alpha\delta o\nu$ $\zeta\omega\eta$ $\Gamma\alpha\beta\rho\iota\eta\lambda\iota\delta o\nu$, editor, $M\epsilon\lambda\epsilon\tau\epsilon\varsigma$ $\alpha\phi\iota\epsilon\rho\omega\mu\epsilon\nu\epsilon\varsigma$ $\sigma\tau\eta\nu$ $O\mu\tau\iota\mu\eta$ $\kappa\alpha\theta\eta\gamma\eta\tau\rho\iota\alpha$ $\alpha.\Pi.\Theta.$ $\alpha\nu\nu\alpha$ $\alpha\nu\alpha\sigma\tau\alpha\sigma\iota\alpha\delta\eta$-$\Sigma\nu\mu\epsilon\omega\nu\iota\delta\eta$,*Melanges offerts à Anna Anastassiades-Syméonides à l'occasion de sa retraite*, pages 232–245. saitapublications, 2014.

[MCO4] **Eric Laporte**. Defining a verb taxonomy by a decision tree. In Kozué Ogata, editor, *Autour des verbes. Constructions et interprétations*, Lingvisticae Investigationes Supplementa, pages 87–108. John Benjamins, 2013.

[MCO5] **Eric Laporte**. Choosing features for classifying multiword expressions. In Manfred Sailer and Stella Markantonatou, editors, *Multiword expressions : Insights from a multilingual perspective*, pages 143–186. Language Science Press, May 2018.

[MCO6] **Eric Laporte**, Elsa Tolone, and **Mathieu Constant**. Conversion of Lexicon-Grammar tables to LMF. Application to French. In Gil Francopoulo, editor, *LMF. Lexical Markup Framework*, pages 157–187. ISTE - Wiley, 2013.

[MCO7] **Takuya Nakamura**. Alla ricerca dell'identità del verbo francese "faire". In De Rogatis, Marrani, Patat, and Russi, editors, *Identità/diversità*, pages 229–242. Pacini editore, 2013.

[MCO8] **Takuya Nakamura**. Sur un emploi nominal référentiel d'une proposition subordonnée en comment. In Antoine Gautier et Thomas Verjans, editor, *Comme, comment, combien : concurrence et complémentarité*, Sémantiques, pages 97–119. L'Harmattan, 2013.

[MCO9] **Takuya Nakamura**. Pour ø N : absence de déterminant dans la construction N avoir pour N X . In *DéterminationS*. 2016.

12 Colloques / congrès, séminaires de recherche

12.1 Éditions d'actes de colloques / congrès

[MEA1] David Baelde and **Arnaud Carayol**, editors. *Proceedings Workshop on Fixed Points in Computer Science, FICS 2013, Turino, Italy, September 1st, 2013*, volume 126 of *EPTCS*, 2013.

[MEA2] Jorge Baptista, Pushpak Bhattacharyya, Christiane Fellbaum, Mikel Forcada, Chu-Ren Huang, Svetla Koeva, Cvetana Krstev, and **Eric Laporte**, editors. *Proceedings of Workshop on Lexical and Grammatical Resources for Language Processing (LG-LP) at COLING, Dublin, Ireland, August 24, 2014*. Association for Computational Linguistics and Dublin City University, 2014.

[MEA3] **Marie-Pierre Béal** and Olivier Carton, editors. *Developments in Language Theory - 17th International Conference, DLT 2013, Marne-la-Vallée, France, June 18-21, 2013. Proceedings*, volume 7907 of *Lecture Notes in Computer Science*. Springer, 2013.

[MEA4] **Arnaud Carayol** and **Cyril Nicaud**, editors. *Implementation and Application of Automata - 22nd International Conference, CIAA 2017, Marne-la-Vallée, France, June 27-30, 2017, Proceedings*, volume 10329 of *Lecture Notes in Computer Science*. Springer, 2017.

[MEA5] Edleno Silva de Moura and **Maxime Crochemore**, editors. *String Processing and Information Retrieval - 21st International Symposium, SPIRE 2014, Ouro Preto, Brazil, October 20-22, 2014. Proceedings*, volume 8799 of *Lecture Notes in Computer Science*. Springer, 2014.

12.2 Articles publiés dans conférences internationales

[MC1] Mika Amit, **Maxime Crochemore**, and Gad M. Landau. Locating all maximal approximate runs in a string. In *Combinatorial Pattern Matching, 24th Annual Symposium, CPM 2013, Bad Herrenalb, Germany, June 17-19, 2013. Proceedings*, pages 13–27, 2013.

[MC2] Alberto Apostolico, **Maxime Crochemore**, Martin Farach-Colton, Zvi Galil, and S. Muthukrishnan. Forty Years of Text Indexing. In *CPM 2013*, volume 7922 of *Lecture Notes in Computer Science*, pages 1–10. Springer, 2013.

[MC3] Boris Aronov, Otfried Cheong, Michael Gene Dobbins, and **Xavier Goaoc**. The Number of Holes in the Union of Translates of a Convex Set in Three Dimensions. In *SoCG 2016*, volume 51 of *LIPIcs*, pages 10 :1–10 :16, 2016.

[MC4] Eugene Asarin, Aldric Degorre, and <u>Nicolas Basset</u>. Spectral Gap in Timed Automata. In *FORMATS 2013*, pages 16–30, 2013.

[MC5] <u>Nicolas Auger</u>, Mathilde Bouvel, **Cyril Nicaud**, and **Carine Pivoteau**. Analysis of Algorithms for Permutations Biased by Their Number of Records. In *27th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithm AOFA 2016*, 2016.

[MC6] <u>Nicolas Auger</u>, **Cyril Nicaud**, and **Carine Pivoteau**. Good predictions are worth a few comparisons. In *Symposium on Theoretical Aspects of Computer Science (STACS 2016)*, pages 1–14, 2016.

[MC7] Golnaz Badkobeh, **Maxime Crochemore**, and Chalita Toopsuwan. Maximal anti-exponent of gapped palindromes. In *Fourth International Conference on Digital Information and Communication Technology and its Applicationsm DICTAP 2014, Bangkok, Thailand, May 6-8, 2014*, pages 205–210, 2014.

[MC8] Christine Barats, Anne Dister, **Philippe Gambette**, Jean-Marc Leblanc, and Marie Peres. Appeler à signer une pétition en ligne : caractéristiques linguistiques des appels. In *International Conference on the Statistical Analysis of Textual Data (JADT 2018)*, pages 1–6, 2018.

[MC9] Christine Barats, Anne Dister, **Philippe Gambette**, Jean-Marc Leblanc, and Marie Peres-Leblanc. Analyzing online petitions : potentialities and limitations of a multidisciplinary study device. In *JADT 2016*, 2016.

[MC10] <u>Nicolas Basset</u>. A maximal entropy stochastic process for a timed automaton. In *International Colloquium on Automata, Languages, and Programming (ICALP 2013)*, pages 61–73, 2013.

[MC11] **Marie-Pierre Béal**, Michel Blockelet, and Catalin Dima. Sofic-Dyck Shifts. In *Mathematical Foundations of Computer Science 2014 - 39th International Symposium, MFCS 2014, Budapest, Hungary, August 25-29, 2014. Proceedings, Part I*, pages 63–74, 2014.

[MC12] **Marie-Pierre Béal** and <u>Pavel Heller</u>. Generalized dyck shifts. In *International Computer Science Symposium in Russia (CSR 2017)*, pages 99–111, 2017.

[MC13] <u>Badre Belabbess</u>, Musab Bairat, <u>Jérémy Lhez</u>, Zakaria Khattabi, Yufan Zheng, and **Olivier Curé**. Scouter : A Stream Processing Web Analyzer to Contextualize Singularities. In *International Conference on Extending Database Technology (EDBT 2018)*, 2018.

[MC14] <u>Badre Belabbess</u>, <u>Jérémy Lhez</u>, Musab Bairat, and **Olivier Curé**. Contextualisation de Singularités en Temps-Réel par Extraction de Connaissances du Web des Données. In *EGC*, 2018.

[MC15] <u>Badre Belabbess</u>, <u>Jérémy Lhez</u>, and **Olivier Curé**. Gestion de Connaissances en Temps Réel depuis des Flux Massifs de Données et Apprentissage Automatique. In *EGC*, 2017.

[MC16] Djamal Belazzougui, Adeline Pierrot, Mathieu Raffinot, and **Stéphane Vialette**. Single and multiple consecutive permutation motif search. In *ISAAC 2013*, volume 8283 of *LNCS*, pages 66–77, 2013.

[MC17] Widmer Bland, **Gregory Kucherov**, and W.F. Smyth. Prefix Table Construction and Conversion. In *IWOCA*, volume 8288 of *Combinatorial Algorithms*, pages 41–53, 2013.

[MC18] **Guillaume Blin**, Paul Morel, Romeo Rizzi, and **Stéphane Vialette**. Towards unlocking the full potential of Multileaf Collimators. In *40th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM)*, volume 8327 of *Lecture Notes in Computer Science*, pages 138–149, 2014.

[MC19] Mathilde Bouvel, Marni Mishna, and **Cyril Nicaud**. Some simple varieties of trees arising in permutation analysis. In *25th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2013)*, volume DMTCS Proceedings vol. AS, 25th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2013) of *DMTCS Proceedings*, pages 825–836. Discrete Mathematics and Theoretical Computer Science, 2013.

[MC20] Christopher H. Broadbent, **Arnaud Carayol**, Matthew Hague, and Olivier Serre. C-SHORe : a collapsible approach to higher-order verification. In *ACM SIGPLAN International Conference on Functional Programming (ICFP'13)*, Proceedings of the 18th ACM SIGPLAN International Conference on Functional Programming (ICFP 2013), pages 13–24. ACM, 2013.

[MC21] Boris Bukh, **Xavier Goaoc**, **Alfredo Hubard**, and Matthew Trager. Consistent sets of lines with no colorful incidence. In *International Symposium on Computational Geometry (SoCG 2018)*, pages 1–20, 2018.

[MC22] **Laurent Bulteau**, Guillaume Fertin, and Christian J Komusiewicz. Beyond Adjacency Maximization : Scaffold Filling for New String Distances . In *28th Annual Symposium on Combinatorial Pattern Matching*, 28th Annual Symposium on Combinatorial Pattern Matching, 2017.

[MC23] **Laurent Bulteau**, Guillaume Fertin, **Anthony Labarre**, Romeo Rizzi, and Irena Rusu. Decomposing cubic graphs into connected subgraphs of size three. In *International Computing and Combinatorics Conference (COCOON 2016)*, 2016.

[MC24] **Laurent Bulteau**, Danny Hermelin, **Anthony Labarre**, and **Stéphane Vialette**. The Clever Shopper Problem. In *The 13th International Computer Science Symposium in Russia (CSR)*, 2018.

[MC25] Massimo Cairo, Carlo Comin, and Romeo Rizzi. Instantaneous Reaction-Time in Dynamic-Consistency Checking of Conditional Simple Temporal Networks. In *TIME 2016 23rd International Symposium on Temporal Representation and Reasoning*, Temporal Representation and Reasoning (TIME), 2016 23rd International Symposium on, pages 80–89. IEEE, 2016.

[MC26] Marie Candito and **Mathieu Constant**. Strategies for contiguous multiword expression analysis and dependency parsing. In *Annual Meeting of the Association for Computational Linguistics (ACL 2014)*, pages 1–11, 2014.

[MC27] **Arnaud Carayol** and Zoltán Ésik. An Analysis of the Equational Properties of the Well-Founded Fixed Point (Short Paper). In *KR 2016*, Proceedings of the Fifteenth International Conference on the Principles of Knowledge Representation and Reasoning, pages 533–536. AAAI Publications, 2016.

[MC28] **Arnaud Carayol** and Stefan Göller. On long words avoiding zimin patterns. In *Symposium on Theoretical Aspects of Computer Science (STACS 2017)*, pages 1–13, 2017.

[MC29] **Arnaud Carayol** and Christof Löding. Uniformization in Automata Theory. In *Logic, Methodology and Philosophy of Science - Proceedings of the 14th International Congress*. 2015.

[MC30] **Arnaud Carayol**, Christof Löding, and Olivier Serre. Automata on infinite trees with equality and disequality constraints between siblings. In *Annual IEEE Symposium on Logic in Computer Science (LICS 2016)*, pages 227–236, 2016.

[MC31] **Arnaud Carayol** and Olivier Serre. How good is a strategy in a game with nature ? In *Annual IEEE Symposium on Logic in Computer Science (LICS 2015)*, page 12, 2015.

[MC32] Vincent Carnino and Sylvain Lombardy. Factorizations and Universal Automaton of Omega Languages. In *Developments in Language Theory - 17th International Conference (DLT'13)*, volume 7907, pages 338–349, 2013.

[MC33] Vincent Carnino and Sylvain Lombardy. On Determinism and Unambiguity of Weighted Two-way Automata. In *14th International Conference on Automata and Formal Languages*, volume 151 of *EPTCS*, pages 188–200, 2014.

[MC34] Vincent Carnino and Sylvain Lombardy. Tropical Two-Way Automata. In *8th IFIP International Conference on Theoretical Computer Science (TCS)*, volume LNCS-8705 of *Theoretical Computer Science*, pages 195–206. Springer, 2014.

[MC35] **Didier Caucal**. On Cayley graphs of algebraic structures. In *10th International Colloquium on Graph Theory and combinatorics (ICGT 2018)*, Discrete Mathematics and Theoretical Computer Science, 2018.

[MC36] **Didier Caucal** and Marion Le Gonidec. Context-Free Sequences. In *Theoretical Aspects of Computing – ICTAC 2014*, volume 8687 of *Lecture notes in computer science*, pages 259 – 276. Gabriel Ciobanu, Dominique Méry , Springer, 2014.

[MC37] **Didier Caucal** and **Chloé Rispal**. Recognizability for automata. In *Developments in Language Theory (DLT 2018)*, 2018.

[MC38] Petr Červenka, Karel Břinda, Michaela Hanousková, Petr Hofman, and Radek Seifert. Blind Friendly Maps : Tactile Maps for the Blind as a Part of the Public Map Portal (Mapy.cz). In *ICCHP 2016 : 15th International Conference on Computers Helping People with Special Needs*, 2016.

[MC39] Byoung-Yeol Chae, Dong-Hee Cho, Sairom Kim, **Eric Laporte**, and Jeesun Nam. A semi-automatic method for constructing MUSE sentiment-annotated corpora. In *ICAL, International Conference on Asian Linguistics*, pages 17–18. Nguyen Tat Thanh University, 2016.

[MC40] Supaporn Chairungsee and **Maxime Crochemore**. Longest previous non-overlapping factors table computation. In *Combinatorial Optimization and Applications - 11th International Conference, COCOA 2017, Shanghai, China, December 16-18, 2017, Proceedings, Part II*, pages 483–491, 2017.

[MC41] **Mathieu Chapelle**, Manfred Cochefert, Jean-François Couturier, Dieter Kratsch, Mathieu Liedloff, and Anthony Perez. Exact Algorithms for Weak Roman Domination. In *IWOCA 2013*, volume 8288 of *Combinatorial Algorithms*, pages 81–93. Springer, 2013.

[MC42] **Mathieu Chapelle**, Mathieu Liedloff, Ioan Todinca, and Yngve Villanger. Treewidth and Pathwidth Parameterized by the Vertex Cover Number. In *WADS 2013*, volume 8037, pages 232–243. Springer, 2013.

[MC43] Panagiotis Charalampopoulos, **Maxime Crochemore**, Costas S. Iliopoulos, Tomasz Kociumaka, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Linear-time algorithm for long LCF with k mismatches. In *Annual Symposium on Combinatorial Pattern Matching, CPM 2018, July 2-4, 2018 - Qingdao, China*, pages 23 :1–23 :16, 2018.

[MC44] Vincent Cohen-Addad, **Éric Colin de Verdière**, and Arnaud de Mesmay. A near-linear approximation scheme for multicuts of embedded graphs with a fixed number of terminals. In *Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2018)*, pages 1439–1458, 2018.

[MC45] **Éric Colin de Verdière**, Vojtech Kaluza, Pavel Paták, Zuzana Patáková, and Martin Tancer. A direct proof of the strong Hanani-Tutte theorem on the projective plane. In *24th International Symposium on Graph Drawing & Network Visualization*, GD 2016, 2016.

[MC46] **Éric Colin de Verdière**, Thomas Magnard, and Bojan Mohar. Embedding graphs into two-dimensional simplicial complexes. In *International Symposium on Computational Geometry (SoCG 2018)*, 2018.

[MC47] **Éric Colin de Verdière** and Salman Parsa. Deciding contractibility of a non-simple curve on the boundary of a 3-manifold. In *Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2017)*, pages 2691–2704, 2017.

[MC48] Carlo Comin, **Anthony Labarre**, Romeo Rizzi, and **Stéphane Vialette**. Sorting with forbidden intermediates. In *International Conference on Algorithms for Computational Biology (AlCoB 2016)*, pages 133–144, 2016.

[MC49] **Mathieu Constant** and Joakim Nivre. A Transition-Based System for Joint Lexical and Syntactic Analysis. In *54th Annual Meeting of the Association for Computational Linguistics (ACL 2016)*, pages 161 – 171, 2016.

[MC50] **Maxime Crochemore**, Gabriele Fici, Robert Mercas, and Solon P. Pissis. Linear-time sequence comparison using minimal absent words & applications. In *LATIN 2016 : Theoretical Informatics - 12th Latin American Symposium, Ensenada, Mexico, April 11-15, 2016, Proceedings*, pages 334–346, 2016.

[MC51] **Maxime Crochemore**, Roberto Grossi, Juha Kärkkäinen, and Gad M. Landau. A constant-space comparison-based algorithm for computing the burrows-wheeler transform. In *Combinatorial Pattern Matching, 24th Annual Symposium, CPM 2013, Bad Herrenalb, Germany, June 17-19, 2013. Proceedings*, pages 74–82, 2013.

[MC52] **Maxime Crochemore**, Alice Héliou, **Gregory Kucherov**, Laurent Mouchard, Solon P Pissis, and Yann Ramusat. Minimal Absent Words in a Sliding Window and Applications to On-Line Pattern Matching. In *Fundamentals of Computation Theory*, volume 10472 of *Fundamentals of Computation Theory*, pages 164 – 176. Springer, 2017.

[MC53] **Maxime Crochemore**, Costas S. Iliopoulos, Tomasz Kociumaka, Ritu Kundu, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Near-optimal computation of runs over general alphabet via non-crossing LCE queries. In *String Processing and Information Retrieval - 23rd International Symposium, SPIRE 2016, Beppu, Japan, October 18-20, 2016, Proceedings*, pages 22–34, 2016.

[MC54] **Maxime Crochemore**, Costas S. Iliopoulos, Tomasz Kociumaka, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Covering problems for partial words and for indeterminate strings. In *Algorithms and Computation - 25th International Symposium, ISAAC 2014, Jeonju, Korea, December 15-17, 2014, Proceedings*, pages 220–232, 2014.

[MC55] **Maxime Crochemore**, Roman Kolpakov, and **Gregory Kucherov**. Optimal Bounds for Computing α-gapped Repeats. In *10th International Conference on Language and Automata Theory and Applications (LATA),* , volume 9618 of *Language and Automata Theory and Applications*, pages 245 – 255. Springer, 2016.

[MC56] **Maxime Crochemore**, Alessio Langiu, and Filippo Mignosi. The rightmost equal-cost position problem. In *2013 Data Compression Conference, DCC 2013, Snowbird, UT, USA, March 20-22, 2013*, pages 421–430, 2013.

[MC57] **Olivier Curé**. On the Annotation of Drug Databases with the Anatomical Therapeutic Chemical Classification System. In *SWAT4LS*, 2013.

[MC58] **Olivier Curé**. On the design of a Globally Distributed, Locally Compressed Knowledge Base System. In *CIDR*, 2017.

[MC59] **Olivier Curé** and **Guillaume Blin**. An Update Strategy for the WaterFowl RDF Data Store. In *13th International Semantic Web Conference (ISWC 2014)*, 2014.

[MC60] **Olivier Curé**, **Guillaume Blin**, Dominique Revuz, and David Célestin Faye. WaterFowl : a Compact, Self-indexed and Inference-enabled Immutable RDF Store. In *11th European Semantic Web Conference (ESWC'14)*, volume 8465 of *Lecture Notes in Computer Science*, pages 302–316. Springer, 2014.

[MC61] **Olivier Curé** and Olaf Hartig. Semantic Data Management in Practice. In *the 26th International Conference*. ACM Press, 2017.

[MC62] **Olivier Curé**, Henri Maurer, Nigam Shah, and Paea LePendu. Refining health outcomes of interest using formal concept analysis and semantic query expansion. In *DTMBIO*, 2013.

[MC63] **Olivier Curé**, Henri Maurer, Nigam Shah, and Paea LePendu. Refining Health Outcomes of Interest using Formal Concept Analysis and Semantic Query Expansion. In *SWAT4LS*, 2013.

[MC64] **Olivier Curé**, Hubert Naacke, Tendry Randriamalala, and Bernd Amann. Litemat : A scalable, cost-efficient inference encoding scheme for large rdf graphs. In *IEEE International Conference on Big Data (Big Data 2015)*, pages 1823–1830, 2015.

[MC65] Wojciech Czerwiński, **Claire David**, Katja Losemann, and Wim Martens. Deciding Definability by Deterministic Regular Expressions. In *Foundations of Software Science and Computation Structure (FoSSaCS'13)*, page 16, 2013.

[MC66] Wojciech Czerwiński, **Claire David**, Filip Murlak, and Pawel Parys. Reasoning About Integrity Constraints for Tree-Structured Data. In *ICDT 2016*, volume 48 of *Proceedings of the 19th International Conference on Database Theory*, pages 20 :1–20 :18. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2016.

[MC67] Laurence Danlos, **Takuya Nakamura**, and Quentin Pradet. Traduction de VerbNet vers le français. In *Congrès ACFAS*, page 1. ACFAS, 2015.

[MC68] **Claire David**, **Nadime Francis**, and Filip Murlak. Consistency of injective tree patterns. In *Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2014)*, pages 279–290, 2014.

[MC69] **Claire David**, Amélie Gheerbrant, Leonid Libkin, and Wim Martens. Containment of Pattern-Based Queries over Data Trees. In *International Conference on Database Theory (ICDT'13)*, page 12, 2013.

[MC70] **Claire David**, Piotr Hofman, Filip Murlak, and Michal Pilipczuk. Synthesizing transformations from XML schema mappings. In *17th International Conference on Database Theory (ICDT 2014)*, pages 61–71, 2014.

[MC71] Sven De Felice and **Cyril Nicaud**.   Brzozowski Algorithm Is Generically Super-Polynomial Deterministic Automata. In *DLT'13*, volume 7907 of *Lecture Notes in Computer Science*, pages 179–190, 2013.

[MC72] Sven De Felice and **Cyril Nicaud**. Random Generation of Deterministic Acyclic Automata Using the Recursive Method. In *8th International Computer Science Symposium in Russia (CSR'13)*, volume 7913, pages 88–99, 2013.

[MC73] Sven De Felice and **Cyril Nicaud**. On the Average Complexity of Brzozowski's Algorithm for Deterministic Automata with a Small Number of Final States. In *DLT 2014*, volume 8633 of *Developments in Language Theory*, pages 25–36. Springer, 2014.

[MC74] Olivier Devillers, Marc Glisse, **Xavier Goaoc**, and Rémy Thomasse. On the smoothed complexity of convex hulls. In *International Symposium on Computational Geometry (SoCG)*, pages 224–238, 2015.

[MC75] Michael Gene Dobbins, Andreas Holmsen, and **Alfredo Hubard**. Realization Spaces of Arrangements of Convex Bodies. In *Symposium on Computational Geometry 2015*, volume 34, page 16, 2015.

[MC76] Francesco Dolce and **Dominique Perrin**. Enumeration Formulæ in Neutral Sets. In *Developments in Language Theory*, 2015.

[MC77] Philippe Duchon and **Cyril Nicaud**. On the biased partial word collector problem. In *Latin American Symposium on Theoretical Informatics (LATIN 2018)*, pages 413–426, 2018.

[MC78] Philippe Duchon and **Cyril Nicaud**. On the Expected Number of Distinct Gapped Palindromic Factors. In *IWOCA 2018 : International Workshop on Combinatorial Algorithms*, 2018.

[MC79] Philippe Duchon, **Cyril Nicaud**, and **Carine Pivoteau**. Gapped pattern statistics. In *Annual Symposium on Combinatorial Pattern Matching (CPM 2017)*, pages 1–12, 2017.

[MC80] Guillaume Fertin, Irena Rusu, and **Stéphane Vialette**. Algorithmic aspects of the S-Labeling problem. In *26th International Workshop on Combinatorial Algorithms (IWOCA 2015)*, number 9538 in Lecture Notes in Computer Science, pages 173–184. Springer-Verlag, 2015.

[MC81] Guillaume Fertin, Irena Rusu, and **Stéphane Vialette**. Obtaining a triangular matrix by independent row-column permutations. In *International Symposium on Algorithms and Computation (ISAAC 2015)*, pages 165–175, 2015.

[MC82] Aggeliki Fotopoulou, Foufi Vassiliki, **Tita Kyriacopoulou**, and Claude Martineau. Extraction of complex text segments in Modern Greek . In *12th International Conference on Greek Linguistics (ICGL 12)*, volume 1, pages 307–326, 2017.

[MC83] **Nadime Francis**, Alastair Green, Paolo Guagliardo, Leonid Libkin, Tobias Lindaaker, Victor Marsault, Stefan Plantikow, Mats Rydberg, Petra Selmer, and Andrés Taylor. Cypher : An evolving query language for property graphs. In *International Conference on Management of Data (SIGMOD 2018)*, pages 1433–1445, 2018.

[MC84] **Philippe Gambette**, Andreas D.M. Gunawan, **Anthony Labarre**, **Stéphane Vialette**, and Louxin Zhang. Locating a tree in a phylogenetic network in quadratic time. In *Annual International Conference on Research in Computational Molecular Biology (RECOMB 2015)*, pages 96–107, 2015.

[MC85] **Philippe Gambette**, Andreas D.M. Gunawan, **Anthony Labarre**, **Stéphane Vialette**, and Louxin Zhang. Solving the Tree Containment Problem for Genetically Stable Networks in Quadratic Time. In *IWOCA 2015*, volume 9538 of *Proceedings of the 26th International Workshop on Combinatorial Algorithms*, pages 197–208. Springer, 2015.

[MC86] **Philippe Gambette**, **Tita Kyriacopoulou**, Nadège Lechevrel, and Claude Martineau. Anatomie, animaux, vocabulaire de la vivisection : construire des ressources lexicales pour visualiser une thématique dans un corpus littéraire. In *Colloque AnimalHumanité - Expérimentation et fiction : l'animalité au coeur du vivant*, 2016.

[MC87] Pawel Gawrychowski, **Gregory Kucherov**, Yakov Nekrich, and Tatiana Starikovskaya. Minimal Discriminating Words Problem Revisited. In *20th International Symposium on String Processing and Information Retrieval (SPIRE 2013)*, volume 8214 of *Lecture Notes in Computer Science*, pages 129–140. Springer, 2013.

[MC88] Pawel Gawrychowski, **Gregory Kucherov**, Benjamin Sach, and Tatiana Starikovskaya. Computing the Longest Unbordered Substring. In *Proc. of the 22nd International Symposium on String Processing and Information Retrieval (SPIRE), September 1-4, 2015, London, UK*, volume 9309 of *Lecture Notes in Computer Science*, page 12. Springer, 2015.

[MC89] **Samuele Giraudo** and **Stéphane Vialette**. Unshuffling permutations. In *Latin American Symposium on Theoretical Informatics (LATIN 2016)*, pages 509–521, 2016.

[MC90] **Xavier Goaoc**, **Alfredo Hubard**, Rémi De Joannis De Verclos, Jean-Sébastien Sereni, and Jan Volec. Limits of order types. In *International Symposium on Computational Geometry (SoCG 2015)*, volume 34 of *Symposium on Computational Geometry 2015 : Eindhoven, The Netherlands*, page 876, 2015.

[MC91] **Xavier Goaoc**, Isaac Mabillard, Pavel Paták, Zuzana Patáková, Martin Tancer, and Uli Wagner. On Generalized Heawood Inequalities for Manifolds : A Van Kampen–Flores-type Nonembeddability Result. In *31st International Symposium on Computational Geometry (SoCG'15)*, LIPIcs, pages 476–490, 2015.

[MC92] **Xavier Goaoc**, Pavel Paták, Zuzana Patáková, Martin Tancer, and Uli Wagner. Bounding Helly Numbers via Betti Numbers. In *International Symposium on Computational Geometry*, volume 34 of *31st International Symposium on Computational Geometry (SoCG 2015)*, pages 507–521. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2015.

[MC93] **Xavier Goaoc**, Pavel Paták, Zuzana Patáková, Martin Tancer, and Uli Wagner. Shellability is np-complete. In *International Symposium on Computational Geometry (SoCG 2018)*, pages 1–15, 2018.

[MC94] Axel Haddad. Model Checking and Functional Program Transformations. In *Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2013)*, pages 115–126, 2013.

[MC95] **Alfredo Hubard**, Vojtech Kaluza, Arnaud de Mesmay, and Martin Tancer. Shortest Path Embeddings of Graphs on Surfaces. In *32nd International Symposium on Computational Geometry (SoCG 2016)*, volume 51 of *32nd International Symposium on Computational Geometry (SoCG 2016)*, pages 43 :1–43 :16, 2016.

[MC96] Peter Jonsson and **Johan Thapper**. Affine consistency and the complexity of semilinear constraints. In *39th International Symposium on Mathematical Foundations of Computer Science (MFCS-2014)*, 2014.

[MC97] **Vincent Jugé**, Patricia Bouyer, and Serge Haddad. Unbounded product-form Petri nets. In *28th International Conference on Concurrency Theory (CONCUR 2017)*, 28th International Conference on Concurrency Theory (CONCUR 2017), 2017.

[MC98] Gabriel Képéklian, **Olivier Curé**, and Laurent Bihanic. From the Web of Documents to the Linked Data. In *eBISS*, 2014.

[MC99] Fadhela Kerdjoudj and **Olivier Curé**. Evaluating Uncertainty in Textual Document. In *URSW at ISWC*, 2015.

[MC100] Fadhela Kerdjoudj and **Olivier Curé**. Management of uncertainty in the framework of knowledge extraction from text. In *EGC 2015*, Actes de la 15ème conférence internationale sur l'extraction et la gestion des connaissances, pages 477–478, 2015.

[MC101] Fadhela Kerdjoudj and **Olivier Curé**. RDF Knowledge Graph Visualization From a Knowledge Extraction System. In *International Conference on The Web Semantic (ESWC 2015)*, 2015.

[MC102] Eleni Kogkitsidou, **Tita Kyriacopoulou**, Claude Martineau, Cristian Martinez, A-Young Kim, and Antoine Schoen. Extraction de citations contenues dans des documents brevet. In *32ème colloque international sur le lexique et la grammaire*, LGC 2013, pages 57–64, 2013.

[MC103] Cvetana Krstev, Anđelka Zečević, Duško Vitas, and **Tita Kyriacopoulou**. Nerosetta for the named entity multi-lingual space. In *Language & Technology Conference (LTC 2013)*, pages 327–340, 2013.

[MC104] **Gregory Kucherov** and Yakov Nekrich. Full-fledged Real-Time Indexing for Constant Size Alphabets. In *International Colloquium on Automata, Languages, and Programming (ICALP 2013)*, volume 7965, pages 650–660. springer, 2013.

[MC105] **Gregory Kucherov**, Kamil Salikhov, and Dekel Tsur. Approximate String Matching Using a Bidirectional Index. In *CPM 2014*, volume 8486 of *Combinatorial Pattern Matching*, pages 222–231. Springer, 2014.

[MC106] **Gregory Kucherov** and Dekel Tsur. Improved filters for the approximate suffix-prefix overlap problem. In *International Symposium on String Processing and Information Retrieval (SPIRE 2014)*, pages 139–148, 2014.

[MC107] **Eric Laporte**. Dictionaries for language processing. Readability and organization of information. In Éric Laporte, Aucione Smarsaro, and Oto Vale, editors, *Dialogar é preciso. Linguística para processamento de línguas*, pages 119–132. PPGEL/UFES, 2013.

[MC108] Chan Le Duc, Myriam Lamolle, and **Olivier Curé**. A Decision Procedure for $\mathscr{SHOIQ}$ with Transitive Closure of Roles. In *ISWC*, 2013.

[MC109] Chan Le Duc, Myriam Lamolle, and **Olivier Curé**. SHOIQ with transitive closure of roles is decidable. In *Description Logics*, 2013.

[MC110] Joseph Le Roux, **Mathieu Constant**, and Antoine Rozenknop. Syntactic Parsing and Compound Recognition via Dual Decomposition : Application to French. In *COLING 2014, the 25th International Conference on Computational Linguistics*, pages 1875–1885, 2014.

[MC111] Nadège Lechevrel and **Philippe Gambette**. Corpus Biolographes version 1.0 : construire, analyser, cartographier. In *Colloque final du programme ANR/DFG Biolographes - Création littéraire et savoirs du vivant au XIXe siècle*, 2017.

[MC112] Roberto Leonarduzzi, Patrice Abry, Stéphane Jaffard, Herwig Wendt, Lucie Gournay, **Tita Kyriacopoulou**, Claude Martineau, and Cristian Martinez. P-leader multifractal analysis for text type identification. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2017)*, pages 4661–4665, 2017.

[MC113] Jérôme Leroux, Vincent Penelle, and Grégoire Sutre. On the Context-Freeness Problem for Vector Addition Systems. In *LICS 2013*, pages 43–52. IEEE, 2013.

[MC114] Jérôme Leroux, Vincent Penelle, and Grégoire Sutre. The Context-Freeness Problem Is coNP-Complete for Flat Counter Systems. In *ATVA'14*, volume 8837 of *Lecture Notes in Computer Science*, pages 248 – 263. Springer, 2014.

[MC115] Jérémy Lhez, Xiangnan Ren, Badre Belabbess, and **Olivier Curé**. A Compressed, Inference-enabled Encoding Scheme for RDF Stream Processing. In *International Conference on The Web Semantic (ESWC 2017)*, pages 79–93, 2017.

[MC116] Alexander Loptev, **Gregory Kucherov**, and Tatiana Starikovskaya. On Maximal Unbordered Factors. In *Proceedings of the 26th Annual Symposium on Combinatorial Pattern Matching (CPM), June 29 - July 1, 2015, Ischia Island (Italy)*, volume 9133 of *Lecture Notes of Computer Science*, page 12, 2015.

[MC117] Joong Chae Na, Heejin Park, **Maxime Crochemore**, Jan Holub, Costas S. Iliopoulos, Laurent Mouchard, and Kunsoo Park. Suffix tree of alignment : An efficient index for similar data. In *Combinatorial Algorithms - 24th International Workshop, IWOCA 2013, Rouen, France, July 10-12, 2013, Revised Selected Papers*, pages 337–348, 2013.

[MC118] **Takuya Nakamura**. Construction "N avoir pour N X". In *4e Congrès Mondial de Linguistique Française*, volume 8, pages 2515–2532, 2014.

[MC119] Both Emerite Neou, Romeo Rizzi, and **Stéphane Vialette**. Pattern Matching for Separable Permutations. In *International Symposium on String Processing and Information Retrieval (SPIRE 2016)*, pages 260–272, 2016.

[MC120] **Cyril Nicaud**. Random Deterministic Automata. In *MFCS 2014*, number 8634 in Mathematical Foundations of Computer Science 2014, pages 5–23. Springer, 2014.

[MC121] **Cyril Nicaud**. A Probabilistic Analysis of the Reduction Ratio in the Suffix-Array IS-Algorithm. In *CPM 2015*, volume 9133 of *Lecture Notes in Computer Science*, pages 374–384. Springer, 2015.

[MC122] **Cyril Nicaud**. Estimating Statistics on Words Using Ambiguous Descriptions. In *27th Annual Symposium on Combinatorial Pattern Matching (CPM 2016)*, volume 54 of *Proceedings of the 27th Annual Symposium on Combinatorial Pattern Matching*, page 9, 2016.

[MC123] **Cyril Nicaud**. Fast synchronization of random automata. In *Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques (APPROX/RANDOM 2016)*, pages 1–12, 2016.

[MC124] Wagner Lúcio Pacheco and **Eric Laporte**. Descrição do verbo cortar para processamento automático de linguagem natural. In Éric Laporte, Aucione Smarsaro, and Oto Vale, editors, *Dialogar é preciso. Linguística para processamento de línguas*, pages 165–176. PPGEL/UFES, 2013.

[MC125] Vincent Penelle. Rewriting Higher-Order Stack Trees. In *International Computer Science Symposium in Russia (CSR 2015)*, pages 364–397, 2015.

[MC126] **Dominique Perrin**. Codes and automata in minimal sets. In *WORDS 2015*, volume 9304 of *Lecture Notes in Computer Science*, pages 35–46. Springer, 2015.

[MC127] Joro Ny Aina Ranaivoarison, **Eric Laporte**, and Baholisoa Simone Ralalaoherivony. Formalization of Malagasy conjugation. In *Language and Technology Conference*, pages 457–462, 2013.

[MC128] Xiangnan Ren and **Olivier Curé**. Strider : A Hybrid Adaptive Distributed RDF Stream Processing Engine. In *ISWC*, 2017.

[MC129] Xiangnan Ren, **Olivier Curé**, Houda Khrouf, Zakia Kazi-Aoul, and Yousra Chabchoub. Apache Spark and Apache Kafka at the rescue of distributed RDF Stream Processing engines. In *15th International Semantic Web Conference ISWC 2016*, 2016.

[MC130] Xiangnan Ren, **Olivier Curé**, Hubert Naacke, Jérémy Lhez, and Ke Li. Strider r : Massive and distributed rdf graph stream reasoning. In *IEEE International Conference on Big Data (Big Data 2017)*, pages 1–10, 2017.

[MC131] Xiangnan Ren, Houda Khrouf, Zakia Kazi-Aoul, Yousra Chabchoub, and **Olivier Curé**. On measuring performances of C-SPARQL and CQELS. In *SR-ISWC*, 2016.

[MC132] Romeo Rizzi and **Stéphane Vialette**. On recognizing words that are squares for the shuffle product. In *International Computer Science Symposium in Russia (CSR 2013)*, pages 235–245, 2013.

[MC133] Andrew Ryzhikov and Marek Szykula. Finding short synchronizing words for prefix codes. In *International Symposium on Mathematical Foundations of Computer Science (MFCS 2018)*, pages 1–14, 2018.

[MC134] Agata Savary, Manfred Sailer, Yannick Parmentier, Michael Rosner, Victoria Rosén, Adam Przepiórkowski, Cvetana Krstev, Veronika Vincze, Beata Wójtowicz, Gyri Smørdal Losnegaard, Carla Parra Escartín, Jakub Waszczuk, **Mathieu Constant**, Petya Osenova,

and Federico Sangati. PARSEME – PARSing and Multiword Expressions within a European multilingual network. In *7th Language & Technology Conference : Human Language Technologies as a Challenge for Computer Science and Linguistics (LTC 2015)*, 2015.

[MC135] Anthony Sigogne, **Mathieu Constant**, and **Eric Laporte**. Intégration des données d'un lexique syntaxique dans un analyseur syntaxique probabiliste. In Fryni Kakoyianni-Doa, editor, *Penser le Lexique-Grammaire. Perspectives actuelles*, Collection Colloques, congrès et conférences. Sciences du Langage, histoire de la langue et des dictionnaires. 30th International Conference on Lexis and Grammar, Nicosia, Cyprus, 2011, pages 505–516. Honoré Champion, 2014. ISBN : 978-2-7453-2512-9.

[MC136] **Johan Thapper** and Stanislav Zivny. Sherali-Adams relaxations for valued CSPs. In *42nd International Colloquium on Automata, Languages, and Programming (ICALP-2015)*, 2015.

[MC137] **Johan Thapper** and Stanislav Zivny. The limits of SDP relaxations for general-valued CSPs. In *Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2017)*, 2017.

[MC138] René Van Bevern, Robert Bredereck, **Laurent Bulteau**, Christian J Komusiewicz, Nimrod Talmon, and Gerhard J Woeginger. Precedence-Constrained Scheduling Problems Parameterized by Partial Order Width. In *DOOR 2016 : Discrete Optimization and Operations Research*, volume 28 of *International Conference on Discrete Optimization and Operations Research*, pages 345 – 120, 2016.

[MC139] **Stéphane Vialette**. Unshuffling Words and Permutations. In *AAIM 2016*, Algorithmic Aspects in Information and Management. Springer, 2016.

[MC140] **Mathias Weller**. Linear-time tree containment in phylogenetic networks. In *RECOMB Comparative Genomics Satellite Conference (RECOMB-CG 2018)*, 2018.

[MC141] Yu Zhou, Yann Ponty, **Stéphane Vialette**, Jérôme Waldispühl, Yi Zhang, and Alain Denise. Flexible RNA design under structure and sequence constraints using formal languages. In *ACM-BCB - ACM Conference on Bioinformatics, Computational Biology and Biomedical Informatics - 2013*, 2013.

12.3 Articles publiés dans des workshops

[MW1] Mai Alzamel, **Maxime Crochemore**, Costas S. Iliopoulos, Tomasz Kociumaka, Ritu Kundu, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. How much different are two words with different shortest periods. In *Artificial Intelligence Applications and Innovations - AIAI 2018 IFIP WG 12.5 International Workshops, SEDSEAL, 5G-PINE, MHDW, and HEALTHIOT, Rhodes, Greece, May 25-27, 2018, Proceedings*, pages 168–178, 2018.

[MW2] **Marie-Pierre Béal**, Michel Blockelet, and Catalin Dima. Zeta functions of finite-type-Dyck shifts are N-algebraic. In *2014 Information Theory and Applications Workshop, ITA 2014, San Diego, CA, USA, February 9-14, 2014*, pages 1–8. IEEE, 2014.

[MW3] Matthias Bentert, Josef Malík, and **Mathias Weller**. Tree containment with soft polytomies. In *Scandinavian Workshop on Algorithm Theory (SWAT 2018)*, pages 1–14, 2018.

[MW4] **Guillaume Blin**. MISTREAT : MotIon Simulator in proton-therapy TREATment. In *The Workshop on Bioinformatics and Stringology 2014 (BioS 2014)*, 2014.

[MW5] **Guillaume Blin**, Paola Bonizzoni, Riccardo Dondi, and Florian Sikora. On the Parameterized Complexity of the Repetition Free Longest Common Subsequence Problem. In *International Workshop on Approximation, Parameterized and EXact algorithms (APEX'13)*, page 3 pp., 2013.

[MW6]   Karel Břinda. Languages of lossless seeds. In *Proceedings of the 14th International Conference on Automata and Formal Languages (AFL)*, volume 151 of *Electronic Proceedings in Theoretical Computer Science*, pages 139–150, 2014.

[MW7]   **Arnaud Carayol** and Matthew Hague. Regular Strategies In Pushdown Reachability Games. In *RP 2014*, volume 8762 of *Lecture Notes in Computer Science*, pages 58–71, 2014.

[MW8]   **Arnaud Carayol** and Matthew Hague. Saturation algorithms for model-checking pushdown systems. In *International Conference on Automata and Formal Languages (AFL 2014)*, volume 151 of *EPTCS*, pages 1–24, 2014.

[MW9]   **Mathieu Constant**, Marie Candito, and Djamé Seddah. The LIGM-Alpage Architecture for the SPMRL 2013 Shared Task : Multiword Expression Analysis and Dependency Parsing. In *Fourth Workshop on Statistical Parsing of Morphologically Rich Languages*, pages 46–52, 2013.

[MW10] **Mathieu Constant** and Isabelle Tellier. Intégrer des ressources lexicales et grammaticales externes dans des analyseurs partiels probabilistes. In *Atelier sur les Méthodes mixtes pour l'analyse syntaxique et sémantique du français*, pages 95–98, 2013.

[MW11] Christophe Crespelle and **Philippe Gambette**. Linear-time Constant-ratio Approximation Algorithm and Tight Bounds for the Contiguity of Cographs. In *Seventh International Workshop on Algorithms and Computation*, volume 7748 of *Lecture Notes in Computer Science*, pages 126–136. Springer, 2013.

[MW12] **Maxime Crochemore**, Alexandre P. Francisco, Solon P. Pissis, and Cátia Vaz. Towards distance-based phylogenetic inference in average-case linear-time. In *17th International Workshop on Algorithms in Bioinformatics, WABI 2017, August 21-23, 2017, Boston, MA, USA*, pages 9 :1–9 :14, 2017.

[MW13] **Olivier Curé**, Hubert Naacke, Mohamed-Amine Baazizi, and Bernd Amann. On the Evaluation of RDF Distribution Algorithms Implemented over Apache Spark. In *The 11th International Workshop on Scalable Semantic Web Knowledge Base Systems*, pages 16–31, 2015.

[MW14] Laurence Danlos, **Takuya Nakamura**, and Quentin Pradet. Vers la création d'un Verbnet du français. In *TALN 2014, 21ème conférence sur le Traitement Automatique des Langues Naturelles, Atelier FondamenTAL*, 2014.

[MW15] **Claire David** and Filip Murlak. Three easy pieces on schema mappings for tree-structured data. In *AMW 2017*, volume 1912 of *Alberto Mendelzon Workshop on Foundations of Data Management and the Web*, pages 1–10, 2017.

[MW16] Jaeho Han, Changhoe Hwang, Seongyong Choi, Gwanghoon Yoo, **Eric Laporte**, and Jeesun Nam. DECO-MWE : Building a Linguistic Resource of Korean Multiword Expressions for Feature-Based Sentiment Analysis. In *13th Workshop on Asian Language Resources*, The 13th Workshop on Asian Language Resources, pages 14–20. Kiyoaki Shirai, 2018.

[MW17] Houda Khrouf, Badre Belabbess, Laurent Bihanic, Gabriel Képéklian, and **Olivier Curé**. WAVES : Big Data Platform for Real-time RDF Stream Processing. In *International Workshop on Stream Reasoning (SR 2016)*, pages 37–48, 2016.

[MW18] Chan Le Duc, Myriam Lamolle, Antoine Zimmermann, and **Olivier Curé**. DRAOn : A Distributed Reasoner for Aligned Ontologies. In *The OWL Reasoner Evaluation Workshop 2013 (ORE 2013)*, pages 14.1–14.6, 2013.

[MW19] Hubert Naacke, Bernd Amann, and **Olivier Curé**. SPARQL Graph Pattern Processing with Apache Spark. In *GRADES (Graph Data-management Experiences & Systems), Workshop, SIGMOD 2017*, pages 1–7, 2017.

[MW20] Laurent Rosaz, Marek Karpinski, Narayanan Narayanan N Narayanan, **Johan Thapper**, Abdelhakim El Maftouhi, Jean-Alexandre Anglès d'Auriac, Csilla Bujtàs, Tuza Zsolt, Leandro Montero, and Yannis Manoussakis. Tropical Dominating Sets in Vertex-Coloured Graphs. In *10th International Workshop on Algorithms and Computation (WALCOM 2016)*, volume 9627 of *LNCS*, pages 17–27, 2016.

[MW21] Kamil Salikhov, Gustavo Sacomoto, and **Gregory Kucherov**. Using cascading Bloom filters to improve the memory usage for de Brujin graphs. In *Workshop on Algorithms in Bioinformatics*, volume 8126 of *Lecture Notes in Computer Science*, page 13p. Springer, 2013.

[MW22] **Johan Thapper**. Consistencies and dichotomies among weighted CSPs. In *JFPC 2016 : Actes des Douzièmes Journées Francophones de Programmation par Contraintes*, pages 16–17, 2016.

[MW23] Patrick Watrin, Louis De Viron, Denis Lebailly, **Mathieu Constant**, and Stéphanie Weiser. Named Entity Recognition for German Using Conditional Random Fields and Linguistic Resources. In *GermEval 2014 Named Entity Recognition Shared Task - KONVENS 2014 Workshop*, 2014.

V

Équipe Signal et communication

13 Journaux / Revues

13.1 Articles scientifiques

[SJ1] Feriel Abboud, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, Jean-Hugues Chenot, and Louis Laborelli. Dual Block Coordinate Forward-Backward Algorithm with Application to Deconvolution and Deinterlacing of Video Sequences. *Journal of Mathematical Imaging and Vision*, 59(3) :415–431, November 2017.

[SJ2] Inaki Estella Aguerri and **Abdellatif Zaidi**. Lossy Compression for Compute-and-Forward in Limited Backhaul Uplink Multicell Processing. *IEEE Transactions on Communications*, 64(12) :5227–5238, September 2016.

[SJ3] Inaki Estella Aguerri and **Abdellatif Zaidi**. In-network Compression for Multiterminal Cascade MIMO Systems. *IEEE Transactions on Communications*, 65(10) :4176 – 4187, June 2017.

[SJ4] Inaki Estella Aguerri, **Abdellatif Zaidi**, Giuseppe Caire, and Shlomo Shamai. On the Capacity of Cloud Radio Access Networks with Oblivious Relaying. *IEEE Transactions on Information Theory*, pages 2068–2072, May 2018.

[SJ5] Zohaib Hassan Awan, **Abdellatif Zaidi**, and Aydin Sezgin. On SDoF of Multi-Receiver Wiretap Channel With Alternating CSIT. *IEEE Transactions on Information Forensics and Security*, 11(08) :1780–1795, April 2016.

[SJ6] Zohaib Hassan Awan, **Abdellatif Zaidi**, and Luc Vandendorpe. Multiaccess Channel with Partially Cooperating Encoders and Security Constraints. *IEEE Transactions on Information Forensics and Security*, 8(7) :1243–1254, 2013.

[SJ7] Meryem Benammar and **Abdellatif Zaidi**. Rate-Distortion Function for a Heegard-Berger Problem with Two Sources and Degraded Reconstruction sets. *IEEE Transactions on Information Theory*, 62(09) :5080–5092, September 2016.

[SJ8] Meryem Benammar and **Abdellatif Zaidi**. Rate-Distortion Region of a Gray–Wyner Model with Side Information. *Entropy*, 20(1) :2.1–2.23, 2018.

[SJ9] Meryem Benammar and **Abdellatif Zaidi**. Secure Lossy Source Coding for Some Classes of Helper and Gray-Wyner Models. *IEEE Transactions on Information Theory*, 2018.

[SJ10] **Jean-François Bercher**. On multidimensional generalized Cramér-Rao inequalities, uncertainty relations and characterizations of generalized *q*-Gaussian distributions. *Journal of Physics A : Mathematical and Theoretical*, 46(9) :095303.1–095303.18, 2013.

[SJ11] **Jean-François Bercher**. Some properties of generalized Fisher information in the context of nonextensive thermostatistics. *Physica A : Statistical Mechanics and its Applications*, 392(15) :3140–3154, August 2013.

[SJ12] Pascal Bianchi, **Walid Hachem**, and Adil Salim. A constant step Forward-Backward algorithm involving random maximal monotone operators. *Journal of Convex Analysis*, 2018.

[SJ13] Lotfi Chaari, Philippe Ciuciu, Sébastien Mériaux, and **Jean-Christophe Pesquet**. Spatio-temporal wavelet regularization for parallel MRI reconstruction : application to functional MRI. *Magnetic Resonance Materials in Physics, Biology and Medicine*, 27(6) :41, March 2014.

[SJ14] Caroline Chaux, Mireille El Gheche, Joumana Farah, **Jean-Christophe Pesquet**, and Beatrice Pesquet-Popescu. A parallel proximal splitting method for disparity estimation from multicomponent images under illumination variation. *Journal of Mathematical Imaging and Vision*, 47(3) :167–178, 2013.

[SJ15] Afef Cherni, **Emilie Chouzenoux**, and Marc-André Delsuc. PALMA, an improved algorithm for DOSY signal processing. *Analyst*, 142(5) :772 – 779, 2017.

[SJ16] **Giovanni Chierchia**, Nelly Pustelnik, **Jean-Christophe Pesquet**, and Béatrice Pesquet-Popescu. Epigraphical splitting for solving constrained convex optimization problems with proximal tools. *Signal, Image and Video Processing*, 9(8) :1737–1749, November 2015.

[SJ17] **Giovanni Chierchia**, Nelly Pustelnik, Béatrice Pesquet-Popescu, and **Jean-Christophe Pesquet**. A Non-Local Structure Tensor Based Approach for Multicomponent Image Recovery Problems. *IEEE Transactions on Image Processing*, 23(12) :5531–5544, December 2014.

[SJ18] **Emilie Chouzenoux**, Anna Jezierska, **Jean-Christophe Pesquet**, and **Hugues Talbot**. A Majorize-Minimize subspace approach for l2-l0 image regularization. *Siam Journal of Imaging Science*, 6(1) :563–591, 2013.

[SJ19] **Emilie Chouzenoux**, Anna Jezierska, **Jean-Christophe Pesquet**, and **Hugues Talbot**. A Convex Approach for Image Restoration with Exact Poisson-Gaussian Likelihood. *SIAM Journal on Imaging Sciences*, 8(4) :2662–2682, 2015.

[SJ20] **Emilie Chouzenoux**, Maxime Legendre, Saïd Moussaoui, and Jérôme Idier. Fast constrained least squares spectral unmixing using primal-dual interior point optimization. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 7(1) :59–69, January 2014.

[SJ21] **Emilie Chouzenoux**, Saïd Moussaoui, Maxime Legendre, and Jérôme Idier. Algorithme primal-dual de points intérieurs pour l'estimation pénalisée des cartes d'abondances en imagerie hyperspectrale. *Traitement du Signal*, 30(1-2) :35–59, 2013.

[SJ22] **Emilie Chouzenoux** and **Jean-Christophe Pesquet**. Convergence Rate Analysis of the Majorize-Minimize Subspace Algorithm. *IEEE Signal Processing Letters*, 23(9) :1284 – 1288, 2016.

[SJ23] **Emilie Chouzenoux** and **Jean-Christophe Pesquet**. A Stochastic Majorize-Minimize Subspace Algorithm for Online Penalized Least Squares Estimation. *IEEE Transactions on Signal Processing*, 65(18) :4770 – 4783, 2017.

[SJ24] **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, and <u>Audrey Repetti</u>. Variable metric forward-backward algorithm for minimizing the sum of a differentiable function and a convex function. *Journal of Optimization Theory and Applications*, 162(1) :107–132, 2014.

[SJ25] **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, and <u>Audrey Repetti</u>. A block coordinate variable metric forward-backward algorithm. *Journal of Global Optimization*, pages 1–29, February 2016.

[SJ26] Patrick Louis Combettes and **Jean-Christophe Pesquet**. Stochastic Quasi-Fejér Block-Coordinate Fixed Point Iterations with Random Sweeping. *SIAM Journal on Optimization*, 25(2) :1221–1248, 2015.

[SJ27] Patrick Louis Combettes and **Jean-Christophe Pesquet**. Stochastic Approximations and Perturbations in Forward-Backward Splitting for Monotone Operators. *Pure and Applied Functional Analysis*, 1(1) :13–37, 2016.

[SJ28] Nicholas Cook, **Walid Hachem**, **Jamal Najim**, and David Renfrew. Non-hermitian random matrices with a variance profile (i) : deterministic equivalents and limiting esds. *Electron. J. Probab.*, 23 :61 pp., 2018.

[SJ29] Camille Couprie, Leo Grady, **Laurent Najman**, **Jean-Christophe Pesquet**, and **Hugues Talbot**. Dual constrained TV-based regularization on graphs. *SIAM Journal on Imaging Sciences*, 6(3) :246–1273, July 2013. 26 pages.

[SJ30] Mohieddine El Soussi, **Abdellatif Zaidi**, and Luc Vandendorpe. Compute-and-Forward on a Multi-User Multi-Relay Channel. *IEEE Transactions on Wireless Communications*, 03(06) :589–592, March 2014.

[SJ31] Mohieddine El Soussi, **Abdellatif Zaidi**, and Luc Vandendorpe. DF-based sum-rate optimization for multicarrier multiple access relay channel. *EURASIP Journal on Wireless Communications and Networking*, May 2015.

[SJ32] Anisia Florescu, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, Philippe Ciuciu, and Silviu Ciochina. A Majorize-Minimize memory gradient method for complex-valued inverse problems. *Signal Processing*, 103 :285–295, 2014.

[SJ33] **Walid Hachem**, Adrien Hardy, and **Jamal Najim**. A Survey on the Eigenvalues Local Behavior of Large Complex Correlated Wishart Matrices. *ESAIM : Proceedings and Surveys*, 51 :150–174, October 2015.

[SJ34] **Walid Hachem**, Adrien Hardy, and **Jamal Najim**. Large Complex Correlated Wishart Matrices : Fluctuations and Asymptotic Independence at the Edges. *Annals of Probability*, 44(3) :2264–2348, 2016.

[SJ35] **Walid Hachem**, Adrien Hardy, and **Jamal Najim**. Large complex correlated Wishart matrices : the Pearcey kernel and expansion at the hard edge. *Electronic Journal of Probability*, 21(1) :1–36, 2016.

[SJ36] **Walid Hachem**, **Philippe Loubaton**, X. Mestre, **Jamal Najim**, and Pascal Vallet. A Subspace Estimator for Fixed Rank Perturbations of Large Random Matrices. *Journal of Multivariate Analysis*, 114 :427–447, 2013.

[SJ37] **Walid Hachem**, **Philippe Loubaton**, **Jamal Najim**, and Pascal Vallet. On bilinear forms based on the resolvent of large random matrices. *Annales de l'Institut Henri Poincaré (B) Probabilités et Statistiques*, 49(1) :36–63, 2013.

[SJ38] <u>Sonja Hiltunen</u>, **Philippe Loubaton**, and Pascal Chevalier. Large System Analysis of a GLRT for Detection With Large Sensor Arrays in Temporally White Noise. *IEEE Transactions on Signal Processing*, 63(20) :5409 – 5423, October 2015.

[SJ39] Anna Jezierska, Caroline Chaux, **Jean-Christophe Pesquet**, **Hugues Talbot**, and Gilbert Engler. An EM Approach for Time-Variant Poisson-Gaussian Model Parameter Estimation. *IEEE Transactions on Signal Processing*, 62(1) :17–30, January 2014.

[SJ40] Mounir Kaaniche, Aurélia Fraysse, Béatrice Pesquet-Popescu, and **Jean-Christophe Pesquet**. A Bit Allocation Method for Sparse Source Coding. *IEEE Trans. on Image Processing*, 23(1) :137–152, January 2014.

[SJ41] **Nikos Komodakis** and **Jean-Christophe Pesquet**. Playing with Duality : An overview of recent primal-dual approaches for solving large-scale optimization problems. *IEEE Signal Processing Magazine*, 2015.

[SJ42] **Philippe Loubaton**. On the almost sure location of the singular values of certain Gaussian block-Hankel large random matrices. *Journal of Theoretical Probability*, 29(4) :1339–1443, 2016.

[SJ43] Yosra Marnissi, **Emilie Chouzenoux**, Amel Benazza-Benyahia, and **Jean-Christophe Pesquet**. An Auxiliary Variable Method for Markov Chain Monte Carlo Algorithms in High Dimension. *Entropy*, 20(2), 2018.

[SJ44] Yosra Marnissi, Yuling Zheng, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. A Variational Bayesian Approach for Image Restoration. Application to Image Deblurring with Poisson-Gaussian Noise. *IEEE Transactions on Computational Imaging*, 3(4) :722–737, May 2017.

[SJ45] Stephen Mc Laughlin, Marcelo Alejandro Pereyra, Alfred O. Hero, Jean-Yves Tourneret, and **Jean-Christophe Pesquet**. Introduction to the Issue on Stochastic Simulation and Optimization in Signal Processing. *IEEE Journal of Selected Topics in Signal Processing*, vol. 10(2) :pp. 221–223, 2016.

[SJ46] **Jamal Najim**. An introduction to large random matrix theory. *Traitement du signal*, 33(2-3), 2016.

[SJ47] **Jamal Najim** and Jianfeng Yao. Gaussian fluctuations for linear spectral statistics of large random covariance matrices. *The Annals of Applied Probability*, 26(3) :1837–1887, 2016.

[SJ48] Marcelo Alejandro Pereyra, Philip Schniter, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, Jean-Yves Tourneret, Alfred O. Hero, and Steve Mclaughlin. A Survey of Stochastic Simulation and Optimization Methods in Signal Processing. *IEEE Journal of Selected Topics in Signal Processing*, vol. 10(2) :pp. 224–241, November 2015.

[SJ49] Gia-Thuy Pham, **Philippe Loubaton**, and Pascal Vallet. Performance analysis of spatial smoothing schemes in the context of large arrays. *IEEE Transactions on Signal Processing*, 64(1) :160–172, January 2016.

[SJ50] Mai Quyen Pham, Caroline Chaux, Laurent Duval, and **Jean-Christophe Pesquet**. A Primal-Dual Proximal Algorithm for Sparse Template-Based Adaptive Filtering : Application to Seismic Multiple Removal. *IEEE Transactions on Signal Processing*, 62(16) :4256–4269, 2014.

[SJ51] Aurélie Pirayre, Camille Couprie, Frédérique Bidard, Laurent Duval, and **Jean-Christophe Pesquet**. BRANE Cut : Biologically-Related A priori Network Enhancement with Graph cuts for Gene Regulatory Network Inference. *BMC Bioinformatics*, December 2015.

[SJ52] Aurélie Pirayre, Camille Couprie, Laurent Duval, and **Jean-Christophe Pesquet**. BRANE Clust : Cluster-Assisted Gene Regulatory Network Inference Refinement. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 15(3) :850–860, June 2018.

[SJ53] Audrey Repetti, Mai Quyen Pham, Laurent Duval, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. Euclid in a Taxicab : Sparse Blind Deconvolution with Smoothed $\ell 1/\ell 2$ Regularization. *IEEE Signal Processing Letters*, 22(5) :539–543, May 2015.

[SJ54] Sinda Smirani, Mohamed Kamoun, Mireille Sarkiss, **Abdellatif Zaidi**, and Pierre Duhamel. Achievable Rate Regions for Two-Way Relay Channel using Nested Lattice coding. *IEEE Transactions on Wireless Communications*, 13 :5607 – 5620, 2014.

[SJ55] Mohieddine El Soussi, **Abdellatif Zaidi**, and Luc Vandendorpe. Compute-and-Forward on a Multiaccess Relay Channel : Coding and Symmetric-Rate Optimization. *IEEE Transactions on Wireless Communications*, 13(4) :1932–1947, 2013.

[SJ56] Pascal Vallet and **Philippe Loubaton**. On the Performance of MUSIC With Toeplitz Rectification in the Context of Large Arrays. *IEEE Transactions on Signal Processing*, 65(22) :5848 – 5859, November 2017.

[SJ57] Pascal Vallet, **Philippe Loubaton**, and Xavier Mestre. Une méthode MUSIC adaptée aux grands réseaux de capteurs. *Traitement du Signal*, 33(2-3) :249 – 272, September 2016.

[SJ58] Pascal Vallet, Xavier Mestre, and **Philippe Loubaton**. Performance Analysis of an Improved MUSIC DoA Estimator. *IEEE Transactions on Signal Processing*, 63(23) :6407 – 6422, 2015.

[SJ59] Chien-Yi Wang, Michèle Wigger, and **Abdellatif Zaidi**. On Achievability for Downlink Cloud Radio Access Networks with Base Station Cooperation. *IEEE Transactions on Information Theory*, May 2018.

[SJ60] **Abdellatif Zaidi**, Zohaib Hassan Awan, Shlomo Shamai, and Luc Vandendorpe. Secure Degrees of Freedom of MIMO X-Channels with Output Feedback and Delayed CSIT. *IEEE Transactions on Information Forensics and Security*, 8(114) :1760–1774, 2013.

[SJ61] **Abdellatif Zaidi**, Pablo Piantanida, and Shlomo Shamai. Capacity Region of Cooperative Multiple Access Channel with States. *IEEE Transactions on Information Theory*, 59(10) :6153–6174, 2013.

[SJ62] **Abdellatif Zaidi**, Pablo Piantanida, and Shlomo Shamai. Capacity Region of Cooperative Multiple Access Channel with States. *IEEE Transactions on Information Theory*, 59(10) :6153–6174, November 2013.

[SJ63] **Abdellatif Zaidi** and Shlomo Shamai. On Cooperative Multiple Access Channels With Delayed CSI at Transmitters. *IEEE Transactions on Information Theory*, 60(10) :6204–6230, 2014.

[SJ64] **Abdellatif Zaidi**, Shlomo Shamai, Pablo Piantanida, and Luc Vandendorpe. Bounds on the Capacity of the Relay Channel with Noncausal State at Source. *IEEE Transactions on Information Theory*, 59(5) :2639–2672, 2013.

13.2 Articles de synthèse / revues bibliographiques

14 Ouvrages

14.1 Direction et coordination d'ouvrages / édition scientifique

14.2 Chapitres d'ouvrage

[SCO1] **Jean-François Bercher**. Entropies et critères entropiques. In Jérome IDIER Jean-François GIOVANNELLI, editor, *Méthodes d'inversion appliquées au traitement du signal et de l'image*, Méthodes d'inversion appliquées au traitement du signal et de l'image. HERMÈS / LAVOISIER, December 2013.

[SCO2] **Jean-François Bercher**. On generalized Cramér-Rao inequalities, and an extension of the Shannon-Fisher-Gauss setting. In *New Perspectives on Stochastic Modeling and Data Analysis*, pages 19–35. ISAST, 2014.

[SCO3] **Jean-François Bercher**. Entropies and entropic criteria. In *Inversion methods applied to signal and image processing*, page 26. Wiley, 2015.

[SCO4] **Antoine Chevreuil** and **Philippe Loubaton**. Blind Signal Separation for Digital Communication Data. In Sergios Theodoridis Rama Chellappa, editor, *Academic Press Library in Signal Processing*, pages 135–186. Academic Press, 2014. to appear in EURASIP E-reference in Signal Processing, invited paper.

[SCO5] **Philippe Loubaton** and Xavier Mestre. Spectral Convergence of Large Block-Hankel Gaussian Random Matrices. In *Advances in Complex Analysis and Operator Theory. Trends in Mathematics*. 2017.

[SCO6] Nelly Pustelnik, Amel Benazza-Benhayia, Yuling Zheng, and **Jean-Christophe Pesquet**. Wavelet-based Image Deconvolution and Reconstruction. *Wiley Encyclopedia of Electrical and Electronics Engineering*, 2016.

15 Colloques / congrès, séminaires de recherche

15.1 Éditions d'actes de colloques / congrès

15.2 Articles publiés dans conférences internationales

[SC1] Feriel Abboud, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, Jean-Hugues Chenot, and Louis Laborelli. A hybrid alternating proximal method for blind video restoration. In *22th European Signal Processing Conference (EUSIPCO 2014)*, 2014.

[SC2] Feriel Abboud, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, Jean-Hugues Chenot, and Louis Laborelli. A Distributed Strategy for Computing Proximity Operators. In *Asilomar Conference on Signals, Systems, and Computers*, pages pages 396–400, 2015.

[SC3] Inaki Estella Aguerri and **Abdellatif Zaidi**. Partial Compute-Compress-and-Forward for Limited Backhaul Uplink Multicell Processing . In *53rd Annual Allerton Conference on Communication, Control, and Computing, Allerton 2015*, 2015.

[SC4] Inaki Estella Aguerri and **Abdellatif Zaidi**. Quantized Compute-and-Forward for Limited Backhaul Uplink Multicell Processing . In *IEEE International Conference on Communications, ICC 2016*, 2016.

[SC5] Inaki Estella Aguerri and **Abdellatif Zaidi**. In-network compression for multiterminal cascade MIMO systems. In *IEEE International Conference on Communications, ICC 2017*, 2017.

[SC6] Inaki Estella Aguerri and **Abdellatif Zaidi**. Distributed Information Bottleneck Method for Discrete and Gaussian Sources. In *International Zurich Seminar on Information and Communication*, 2018.

[SC7] Inaki Estella Aguerri, **Abdellatif Zaidi**, Giuseppe Caire, and Shlomo Shamai. On the Capacity of Cloud Radio Access Networks with Oblivious Relaying. In *IEEE Internation Conference on Information Theory, ISIT*, 2017.

[SC8] Zohaib Hassan Awan, **Abdellatif Zaidi**, and Aydin Sezgin. On SDoF of Multi-Receiver Wiretap Channel With Alternating CSIT . In *IEEE International Symposium on Information Theory, ISIT 2016*, 2016.

[SC9] Meryem Benammar and **Abdellatif Zaidi**. Lossless Source Coding for a Heegard-Berger Problem with Two Sources and Degraded Reconstruction sets. In *IEEE International Symposium on Wireless Communication Systems, ISWCS 2015*, 2015.

[SC10] Meryem Benammar and **Abdellatif Zaidi**. Rate-Distortion of a Heegard-Berger Problem with Common Reconstruction . In *Zurich Seminar on Communications and Information*, 2016.

[SC11] Meryem Benammar and **Abdellatif Zaidi**. Rate distortion regions of Heegard-Berger problems with successive refinement and scalable coding. In *Allerton Conference on Communication, Control, and Computing, Allerton 2016*, 2016.

[SC12] Meryem Benammar and **Abdellatif Zaidi**. Rate-distortion region of a Gray-Wyner problem with side-information. In *IEEE International Symposium on Information Theory* , pages 106–110, 2017.

[SC13] Meryem Benammar and **Abdellatif Zaidi**. Secure lossy helper and Gray-Wyner problems. In *IEEE International Symposium on Information Theory, ISIT 2016* , pages 2454–2458, 2018.

[SC14] Alessandro Benfenati, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. A Nonconvex Variational Approach for Robust Graphical Lasso. In *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2018)*, Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2018), 2018.

[SC15] **Jean-François Bercher**. À propos d'extensions de l'information de Fisher et de l'inégalité de Cramér-Rao. In *24e colloque Gretsi*, page 4, 2013.

[SC16] **Jean-François Bercher**. On some interrelations of generalized q-entropies and a generalized Fisher information, including a Cramér-Rao inequality. In *International Conference on Applied Stochastic Models and Data Analysis (ASMDA 2013)*, 2013.

[SC17] **Jean-François Bercher**. Some results on a χ-divergence, an extended Fisher information and generalized Cramér-Rao inequalities. In *International Conference on Geometric Science of Information (GSI 2013)*, pages 487–494. 2013.

[SC18] **Jean-François Bercher**, Bénédicte Duriez, Nicole Boggetto, and Marie-Noelle Prioleau. Dynamique et synchronisme de réplication de l'ADN dans des cellules vivantes – Analyse de marqueurs fluorescents. In *Colloque GRETSI*, 2015.

[SC19] **Jean-François Bercher**, Valerie Girardin, Justine Lequesne, Philippe Regnault, and Steeve Zozor. Sur la recherche de ϕ-entropie à maximisante donnée. In *XXVème colloque GRETSI (GRETSI 2015)*. GRETSI, 2015.

[SC20] **Jean-François Bercher** and Steeve Zozor. Properties and Inequalities for ϕ-entropies Derived from Inverse MaxEnt Problems. In *Entropy 2018 : From Physics to Information Sciences and Geometry*, 2018.

[SC21] Rémy Boyer and **Philippe Loubaton**. Large deviation analysis of the CPD detection problem based on random tensor theory. In *25th European Signal Processing Conference (EUSIPCO 2017)*, 2017.

[SC22] Sara Cadoni, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, and Caroline Chaux. A block parallel majorize-minimize memory gradient algorithm. In *IEEE International Conference on Image Processing (ICIP 2016)*, pages 3194 – 3198, 2016.

[SC23] Amani Chaker, Mounir Kaaniche, and Amel Benazza-Benyahia. An efficient retrieval strategy for wavelet-based quantized images. In *IEEE International Conference on Acoustics Speech and Signal Processing (ICASSP)*, 2013.

[SC24] Afef Cherni, **Emilie Chouzenoux**, and Marc-André Delsuc. Proximity Operators for a Class of Hybrid Sparsity+Entropy Priors. Application to DOSY NMR Signal Reconstruction. volume In Proceedings of the International Symposium on Signal, Image, Video and Communications (ISIVC 2016), 2016.

[SC25] Afef Cherni, **Emilie Chouzenoux**, and Delsuc Marc-André. Fast Dictionnary-Based Approach for Mass Spectrometry Data Analysis. In *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2018)*, Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2018), 2018.

[SC26] **Giovanni Chierchia**, Afef Cherni, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. Approche de Douglas-Rachford aléatoire par blocs appliquée à la régression logistique parcimonieuse. In *GRETSI 2017*, Actes du 26e colloque GRETSI, pages 1–4, 2017.

[SC27] **Giovanni Chierchia**, Nelly Pustelnik, **Jean-Christophe Pesquet**, and Béatrice Pesquet-Popescu. An epigraphical convex optimization approach for multicomponent image restoration using non-local structure tensor. In *Acoustics, Speech and Signal Processing (ICASSP), 2013 IEEE International Conference on*, 2013.

[SC28] **Giovanni Chierchia**, Nelly Pustelnik, **Jean-Christophe Pesquet**, and Beatrice Pesquet-Popescu. Epigraphical Proximal Projection for Sparse Multiclass SVM. In *IEEE International Conference on Acoustics, Speech and Signal Processing*, 2014.

[SC29] **Emilie Chouzenoux**, Lisa Lamasse, Sandrine ANTHOINE, Caroline Chaux, Alexandre Jaouen, Ivo Vanzetta, and Franck Debarbieux. Approche variationnelle pour la déconvolution rapide de données 3D en microscopie biphotonique. In *Actes du 25e colloque GRETSI*, 2015.

[SC30] **Emilie Chouzenoux**, Saïd Moussaoui, Jérôme Idier, and François Mariette. Primal-dual interior point optimization for a regularized reconstruction of NMR relaxation time distributions. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2013)*, 2013.

[SC31] **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, and Anisia Florescu. A multi-parameter optimization approach for complex continuous sparse modelling. In *19th International Conference on Digital Signal Processing (DSP 2014)*, pages 817 – 820, 2014.

[SC32] **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, and Anisia Florescu. A stochastic 3MG algorithm with application to 2d filter identification. In *22th European Signal Processing Conference (EUSIPCO 2014)*, 2014.

[SC33] **Emilie Chouzenoux**, Fiona Zolyniak, Emmanuelle Gouillart, and **Hugues Talbot**. A Majorize-Minimize memory gradient algorithm applied to X-ray tomography. In *International Conference on Tomography of Materials and Structures*, 2013.

[SC34] **Emilie Chouzenoux**, Fiona Zolyniak, Emmanuelle Gouillart, and **Hugues Talbot**. A Majorize-Minimize memory gradient algorithm applied to X-ray tomography. In *20th IEEE International Conference on Image Processing (ICIP 2013)*, pages 1011–1015, 2013.

[SC35] Patrick L Combettes and **Jean-Christophe Pesquet**. Stochastic forward-backward and primal-dual approximation algorithms with application to online image restoration. In *European Signal and Image Processing Conference (EUSIPCO 2016)*, pages 1813 – 1817, 2016.

[SC36] Patrick Louis Combettes, Laurent Condat, **Jean-Christophe Pesquet**, and Bang Cong Vu. A Forward-Backward View of Some Primal-Dual Optimization Methods in Image Recovery. In *21st IEEE International Conférence on Image Processing (ICIP 2014)*, 2014.

[SC37] Marie-Caroline Corbineau, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. PIPA : A New Proximal Interior Point Algorithm for Large Scale Convex Optimization. In *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2018)*, Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2018), 2018.

[SC38] Viacheslav Dudar, **Giovanni Chierchia**, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, and Vladimir V. Semenov. A Two-Stage Subspace Trust Region Approach for Deep Neural Network Training. In *25th European Signal Processing Conference (EUSIPCO 2017)*, Proceedings of the 25th European Signal Processing Conference, pages 291–295, 2017.

[SC39] Bénédicte DURIEZ, Nicole Boggetto, **Jean-François Bercher**, Sabarinadh Chilaka, Chrystelle Maric, and Marie-Noëlle Prioleau. Dynamic of DNA replication in single living cells. In *11e Colloque 3R*, 2015.

[SC40] Bénédicte DURIEZ, Nicole Boggetto, **Jean-François Bercher**, Sabarinadh Chilaka, Chrystelle Maric, and Marie-Noëlle Prioleau. Replication synchrony of allelic loci in single living cells from early to late S-phase. In *Cold Spring Harbor Laboratory Meeting : Eukaryotic DNA Replication & Genome Maintenance*, 2015.

[SC41] Mireille El Gheche, Anna Jezierska, **Jean-Christophe Pesquet**, and Joumana Farah. A proximal approach for signal recovery based on information measures. In *EUSIPCO 2013*, 2013.

[SC42] Mireille El Gheche, **Jean-Christophe Pesquet**, and Farah Joumana. A proximal approach for optimization problems involving Kullback divergences. In *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2013.

[SC43] Mohieddine El Soussi, **Abdellatif Zaidi**, and Luc Vandendorpe. Compress-and-Forward on a Multiaccess Relay Channel With Computation at the Receiver. In *IEEE International Conference on Communications, ICC*, 2013.

[SC44] Pierre Escamilla, Michèle Wigger, and **Abdellatif Zaidi**. Distributed Hypothesis Testing with Concurrent Detections. In *IEEE International Symposium on Information Theory, ISIT*, 2018.

[SC45] Anisia Florescu, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, and Silviu Ciochina. Estimation d'un signal complexe à partir d'un modèle parcimonieux perturbé. In *XXIVième colloque GRETSI sur le Traitement du Signal et des Images*, 2013.

[SC46] Anisia Florescu, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, Philippe Ciuciu, and Silviu Ciochina. A complex-valued majorize-minimize memory gradient method with application to parallel MRI. In *21st European Signal Processing Conference (EUSIPCO 2013)*, pages 14283743.1–14283743.5, 2013.

[SC47] Pierre Gouédard and **Philippe Loubaton**. On the behaviour of the estimated fourth-order cumulants matrix of a high-dimensional gaussian white noise. In *International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA 2017)*, 2017.

[SC48] Sonja Hiltunen, Pascal Chevalier, and **Philippe Loubaton**. New insights into time synchronization of MIMO systems with interference. In *23rd European Signal Processing Conference*, 2015.

[SC49] Sonja Hiltunen and **Philippe Loubaton**. Asymptotic analysis of a GLR test for detection with large sensor arrays : New results. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2017)*, pages 4506 – 4510, 2017.

[SC50] Sonja Hiltunen, **Philippe Loubaton**, and P Chevalier. Asymptotic analysis of a GLRT for detection with large sensor arrays. In *EUSIPCO* , 2014 22nd European Signal Processing Conference (EUSIPCO), 2014.

[SC51] Anna Jezierska, **Jean-Christophe Pesquet**, **Hugues Talbot**, and Caroline Chaux. Iterative Poisson-Gaussian Noise Parametric Estimation for Blind Image Denoising. In *IEEE International Conference on Image Processing*, pages 1–5, 2014.

[SC52] Mounir Kaaniche, Aurélia Fraysse, Beatrice Pesquet-Popescu, and **Jean-Christophe Pesquet**. Accurate rate-distortion approximation for sparse Bernoulli-Generalized Gaussian models. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2014)*, 2014.

[SC53] Maxime Legendre, Said Moussaoui, **Emilie Chouzenoux**, and Jérôme Idier. Primal-dual Interior-Point Optimization Based on Majorization-Minimization for Edge-Preserving Spectral Unmixing. In *IEEE International Conference on Image Processing*, 2014.

[SC54] Yosra Marnissi, Amel Benazza-Benyahia, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. Generalized multivariate exponential power prior for wavelet-based multichannel image restoration. In *20th IEEE International Conference on Image Processing (ICIP 2013)*, pages 2402–2406, 2013.

[SC55] Yosra Marnissi, Amel Benazza-Benyahia, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. Majorize-Minimize adapted Metropolis-Hastings algorithm. Application to multichannel image recovery. In *22th European Signal Processing Conference (EUSIPCO 2014)*, 2014.

[SC56] Yosra Marnissi, Yuling Y. Zheng, and **Jean-Christophe Pesquet**. Fast variational Bayesian signal recovery in the presence of Poisson-Gaussian noise. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages pages 3964–3968, 2016.

[SC57] Xavier Mestre, Pascal Vallet, and **Philippe Loubaton**. On the resolution probability of conditional and unconditional maximum likelihood DoA estimation. In *21th European Signal Processing Conference (EUSIPCO 2013)*, pages 1–5, 2013.

[SC58] Adrien Pelletier, Romain Couillet, and **Jamal Najim**. Second-Order Analysis of the Joint SINR distribution in Rayleigh Multiple Access and Broadcast Channels. In *2013 Asilomar Conference on Signals, Systems and Computers* , 2013 Asilomar Conference on Signals, Systems and Computers, 2013.

[SC59] G T Pham and **Philippe Loubaton**. Performances des filtres de Wiener spatio-temporels entrainés : le cas des grandes dimensions. In *GRETSI*, 2015.

[SC60] G T Pham, **Philippe Loubaton**, and P. Vallet. Performance Analysis of Spatial Smoothing Schemes in the Context of Large Arrays. In *ICASSP* , 2015.

[SC61] Gia-Thuy Pham and **Philippe Loubaton**. Applications of large empirical spatio-temporal covariance matrix in multipath channels detection. In *23rd European Signal Processing Conference*, Signal Processing Conference (EUSIPCO), 2015 23rd European, pages 1192 – 1196, 2015.

[SC62] Mai Quyen Pham, Caroline Chaux, Laurent Duval, and **Jean-Christophe Pesquet**. Filtrage de multiples sismiques par ondelettes et optimisation convexe. In *Colloque Gretsi 2013*, 2013.

[SC63] Mai Quyen Pham, Caroline Chaux, Laurent Duval, and **Jean-Christophe Pesquet**. Seismic multiple removal with a Primal-Dual proximal algorithm. In *ICASSP*, page 5 pp., 2013.

[SC64] Mai Quyen Pham, Caroline Chaux, Laurent Duval, and **Jean-Christophe Pesquet**. A constrained-based optimization approach for seismic data recovery problems. In *ICASSP 2014 - IEEE International Conference on Acoustics, Speech and Signal Processing*, pages 2377–2381, 2014.

[SC65] Mai Quyen Pham, Caroline Chaux, Laurent Duval, and **Jean-Christophe Pesquet**. Sparse adaptive template matching and filtering for 2D seismic images with dual-tree wavelets and proximal methods. In *ICIP - International Conference on Image Processing 2015*, pages 2339–2343, 2015.

[SC66] Audrey Repetti, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. Reconstruction d'image en présence de bruit gaussien dépendant par un algorithme Explicite-Implicite à métrique variable. In *XXIVième colloque GRETSI sur le Traitement du Signal et des Images*, 2013.

[SC67] Audrey Repetti, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. A nonconvex regularized approach for phase retrieval. In *21st IEEE International Conference on Image Processing (ICIP 2014)*, 2014.

[SC68] Audrey Repetti, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. A preconditioned Forward-Backward approach with application to large-scale nonconvex spectral unmixing problems. In *39th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2014).*, pages 1498 – 1502, 2014.

[SC69] Audrey Repetti, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. A parallel block-coordinate approach for primal-dual splitting with arbitrary random block selection. In *European Signal Processing Conference*, pages pages 235–239, 2015.

[SC70] Audrey Repetti, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. A Random Block-Coordinate Primal-Dual Proximal Algorithm with Application to 3D Mesh Denoising. In *IEEE International Conference on Acoustics, Speech, and Signal Processing*, pages pages 3561–3565, 2015.

[SC71] Audrey Repetti, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. Un petit tutoriel sur les méthodes primales-duales proximales pour l'optimisation convexe. In *GRETSI*, 2015.

[SC72] Adil Salim, Pascal Bianchi, and **Walid Hachem**. Convergence d'un algorithme du gradient proximal stochastique à pas constant et généralisation aux opérateurs monotones aléatoires. In *GRETSI*, 2017.

[SC73] Sinda Smirani, Mohamed Kamoun, Mireille Sarkiss, **Abdellatif Zaidi**, and Pierre Duhamel. Lattice-based Wyner-Ziv Coding for Parallel Gaussian Two-Way Relay Channels. In *2013 IEEE Wireless Communications and Networking Conference (WCNC)*, pages 1–5, 2013.

[SC74] Tim Tsz-Kit, **Emilie Chouzenoux**, Claire Lefort, and **Jean-Christophe Pesquet**. Optimal Multivariate Gaussian Fitting for PSF Modeling in Two-Photon Microscopy. In *15 th IEEE International Symposium on Biomedical Imaging (ISBI 2018)*, 15 th Proceedings of the IEEE International Symposium on Biomedical Imaging (ISBI 2018), 2018.

[SC75] P. Vallet and **Philippe Loubaton**. Toeplitz rectification and DOA estimation with music. In *ICASSP* , pages 2237 – 2241, 2014.

[SC76] P. Vallet, **Philippe Loubaton**, and X. Mestre. A statistical comparison between music and G-music. In *ICASSP*, page A, 2015.

[SC77] Pascal Vallet and **Philippe Loubaton**. Sur la capacité de résolution de méthodes sous-espace. In *24ème colloque GRETSI*, pages 1–4, 2013.

[SC78] Pascal Vallet and **Philippe Loubaton**. Toeplitz rectification and DoA estimation with MU-SIC. In *2014 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, pages 1–5, 2014.

[SC79] Chien-Yi Wang, Michèle Wigger, and **Abdellatif Zaidi**. On Achievability for Downlink Cloud Radio Access Networks with Base Station Cooperation. In *IEEE Wireless Communications and Networking Conference, WCNC 2017*, pages 1–6, 2017.

[SC80] Chien-Yi Wang and **Abdellatif Zaidi**. Rate-distortion regions of instances of cascade source coding with side information. In *IEEE International Symposium on Information Theory, ISIT 2017*, pages 1918–1922, 2017.

[SC81] **Abdellatif Zaidi**. Two-encoder multiterminal source coding with side information under logarithmic loss. In *IEEE International Symposium on Information Theory, ISIT 2017*, pages 724–728, 2017.

[SC82] **Abdellatif Zaidi**, Mohamed Ali Moussa, and Roy Timo. Bounds on the Benefits of Interaction in Distributed Source Coding for Function Computation. In *IEEE International Symposium on Wireless Communication Systems, ISWCS 2015*, 2015.

[SC83] **Abdellatif Zaidi** and Shlomo Shamai. On Cooperative Multiple Access Channels with Delayed CSI. In *IEEE International Symposium on Information Theory (ISIT 2013)*, pages 982–986, 2013.

[SC84] Yuling Zheng, Aurélia Fraysse, and Thomas Rodet. Approche bayésiennevariationnelle non-supervisée basée sur les ondelettes. In *25eme Colloque GRETSI 2015*, 2015.

[SC85] Yuling Zheng, Aurélia Fraysse, and Thomas Rodet. Wavelet based unsupervised variational Bayesian image reconstruction approach. In *23rd European Signal Processing Conference (EUSIPCO 2015)*, pages 2212–2216, 2015.

15.3 Articles publiés dans des workshops

[SW1] Inaki Estella Aguerri and **Abdellatif Zaidi**. Lossy Compression for Compute-and-Forward in Limited Backhaul Wireless Relay Networks. In *IEEE Information Theory Workshop, ITW 2016*, 2016.

[SW2] Meryem Benammar and **Abdellatif Zaidi**. Rate-Distortion Function for a Heegard-Berger Problem with Two Sources and Degraded Reconstruction sets . In *IEEE Information Theory Workshop, ITW 2015*, 2015.

[SW3] Meryem Benammar and **Abdellatif Zaidi**. On lossy source coding with equivocation constraints. In *IEEE Informationa Theory Workshop, ITW 2016*, 2016.

[SW4] Alessandro Benfenati, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. A Proximal Approach for Solving Matrix Optimization Problems Involving a Bregman Divergence. In *BASP 2017 - International Biomedical and Astronomical Signal Processing Frontiers workshop*, 2017.

[SW5] **Jean-François Bercher**, V Girardin, J Lequesne, and Ph Regnault. Goodness-of-fit tests based on (h,φ)-divergences and entropy differences. In *34th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering*. A. Djafari and F. Barbaresco, 2014.

[SW6] Sara Cadoni, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, and Caroline Chaux. A Block Parallel Majorize-Minimize Memory Gradient Algorithm. In *BASP 2017 - International Biomedical and Astronomical Signal Processing Frontiers workshop*, page 1, 2017.

[SW7] Marc Castella and **Jean-Christophe Pesquet**. Optimization of a Geman-McClure like criterion for sparse signal deconvolution. In *CAMSAP 2015 : 6th International Workshop on Computational Advances in Multi-Sensor Adaptive Processing*, pages 317–320. IEEE, 2015.

[SW8] **Antoine Chevreuil** and **Philippe Loubaton**. On the non-detectability of spiked large random tensors. In *IEEE Statistical Signal Processing Workshop (SSP 2018)*, 2018.

[SW9] **Giovanni Chierchia**, Nelly Pustelnik, and **Jean-Christophe Pesquet**. Random primal-dual proximal iterations for sparse multiclass SVM. In *IEEE International Workshop on Machine Learning for Signal Processing*, 2016.

[SW10] Yosra Marnissi, **Emilie Chouzenoux**, **Jean-Christophe Pesquet**, and Amel Benazza-Benyahia. An Auxiliary Variable Method for Langevin based MCMC algorithms. In *IEEE Workshop on Statistical Signal Processing (SSP 2016)*, Proceedings of the IEEE Workshop on Statistical Signal Processing (SSP 2016), pages 297–301, 2016.

[SW11] Gia-Thuy Pham and **Philippe Loubaton**. Optimization of the loading factor of regularized estimated spatial-temporal wiener filters in large system case. In *IEEE Statistical Signal Processing Workshop, (SSP 2016)*, pages 1–5, 2016.

[SW12] Audrey Repetti, **Emilie Chouzenoux**, and **Jean-Christophe Pesquet**. Proximal Primal-Dual Optimization Methods. In *International Biomedical and Astronomical Signal Processing Frontiers workshop*, page page 25, 2015.

[SW13] Sinda Smirani, Mohamed Kamoun, M. Sarkis, **Abdellatif Zaidi**, and Pierre Duhamel. Finite Dimension Wyner-Ziv Lattice Coding for Two-Way Relay Channel. In *2013 IEEE 14th Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, pages 1–5, 2013.

[SW14] Yigit Ugur, Inaki Estella Aguerri, and **Abdellatif Zaidi**. A Generalization of Blahut-Arimoto Algorithm to Compute Rate-Distortion Regions of Multiterminal Source Coding Under Logarithmic Loss. In *IEEE Information Theory Workshop, ITW*, 2017.

[SW15] Pascal Vallet, Xavier Mestre, **Philippe Loubaton**, and Romain Couillet. Asymptotic analysis of beamspace-MUSIC in the context of large arrays. In *2014 IEEE 8th Sensor Array and Multichannel Signal Processing Workshop (SAM)* , 2014 IEEE 8th Sensor Array and Multichannel Signal Processing Workshop (SAM), pages 469–472, 2014.

[SW16] Lu Wang, Laurent Albera, Lotfi Senhadji, and **Jean-Christophe Pesquet**. An Alternating Direction Method of Multipliers for Constrained Joint Diagonalization by Congruence (Invited Paper). In *2015 IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing*, pages 197–200, 2015.

[SW17] Qi Wei, **Emilie Chouzenoux**, Jean-Yves Tourneret, and **Jean-Christophe Pesquet**. A Fast Algorithm Based on a Sylvester-like Equation for LS Regression with GMRF Prior. In *CAMSAP 2017- IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing*, Proceedings of the IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing, 2017.

[SW18] **Abdellatif Zaidi**. On Two Terminal Interactive Source Coding for Function Computation with Remote Sources . In *IEEE Information Theory Workshop (ITW 2015)*, 2015.

[SW19] **Abdellatif Zaidi** and Shamai Shlomo. On Multiple Access Channels with Delayed CSI at Transmitters,. In *IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, 2013.