

I.3- Articles scientifiques publiés dans des actes de colloques / congrès internationaux à comité de lecture (2013 - 2018)

2013

1. A. Bernard-Champmartin, J.-P. Braeunig, and J.-M. Ghidaglia. **An Eulerian finite volume solver for multi-material fluid flows with cylindrical symmetry**. COMPUTERS & FLUIDS, 83(SI):170–176, AUG 16 2013. 5th International Conference on Numerical Methods for Highly Compressible Multi-Material Flow Problems (MULTIMAT), Arcachon, FRANCE, SEP 05-09 2011. DOI: 10.1016/j.compfluid.2012.09.014
2. E. Contal, D. Buffoni, A. Robicquet, N. Vayatis. **Parallel Gaussian process optimization with upper confidence bound and pure exploration**. In Blockeel H, Kersting K, Nijssen S, Železný F, MACHINE LEARNING AND KNOWLEDGE DISCOVERY IN DATABASES (ECML PKDD 2013). Lecture Notes in Computer Science, 8188:225-240, 2013. ISBN 978-3-642-40987-5 - 978-3-642-40988-2. DOI:10.1007/978-3-642-40988-2_15
3. R. Conte and M. Musette. **Introduction to the Painlevé property, test and analysis**. In Ma, WX and Kaup, D, NONLINEAR AND MODERN MATHEMATICAL PHYSICS, AIP Conference Proceedings, 1562:24–29. 2nd International Workshop Nonlinear and Modern Mathematical Physics, Univ S Florida, Tampa Campus, Tampa, FL, MAR 09-11 2013. DOI: 10.1063/1.4828679
4. S. V. Kesavan, C. P. Allier, F. Navarro, F. Mittler, B. Chalmond, and J. M. Dinten. **Lensless imaging system to quantify cell proliferation**. In Farkas, DL and Nicolau, DV and Leif, RC, IMAGING, MANIPULATION, AND ANALYSIS OF BIOMOLECULES, CELLS, AND TISSUES XI, Proceedings of SPIE, vol. 8587, 2013. SPIE Conference on Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues XI, San Francisco, CA, FEB 02-05 2013. DOI: 10.1117/12.2001826
5. E. Lebed, S. Lee, S. Han, P. Mackenzie, A. Trouvé, M. Sarunic, M. F. Beg. **Novel method for registration and statistical analysis of volumetric retinal OCT data using surface currents**. INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE, 54(15):5534, ARVO Annual meeting abstract, JUN 2013.
6. N. Pierazzo and M. Rais. **Boosting “shotgun denoising” by patch normalization**. In IEEE 20th INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2013), Melbourne, AUSTRALIA, SEP 15-18 2013, p. 1115–1119. DOI: 10.1109/ICIP.2013.6738230
7. S. Varet, P. Dossantos-Uzarralde, N. Vayatis, A. Garlaud, E. Bauge. **Kriging approach for the experimental cross-section covariances estimation**. In O. Serot, C. DeSaintJean, O. Litaize, G. Noguere, WONDER-2012, EPJ Web of Conferences, vol. 42, 2013. 3rd International Workshop on Nuclear Data Evaluation for Reactor Applications (WONDER), Aix-en-Provence, FRANCE, SEP 25-28 2012. DOI: 10.1051/epjconf/20134207003
8. S. Varet, P. Dossantos-Uzarralde, N. Vayatis, E. Bauge. **Pseudo-measurement simulations and bootstrap for the experimental cross-section covariances estimation with quality quantification**. In O. Serot, C. DeSaintJean, O. Litaize, G. Noguere, WONDER-2012, EPJ Web of Conferences, vol. 42, 2013. 3rd International Workshop on Nuclear Data Evaluation for Reactor Applications (WONDER), Aix-en-Provence, FRANCE, SEP 25-28 2012. DOI: 10.1051/epjconf/20134203002

2014

1. S. Blusseau, A. Carboni, A. Maiche, J.-M. Morel, R. Grompone von Gioi. **A psychophysical evaluation of the a contrario detection theory**. In IEEE 21st INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2014), Paris, FRANCE, OCT 27-30 2014, p. 1091-1095. DOI: 10.1109/ICIP.2014.7025217
2. J. Brennan, C. Viotti, and F. Dias. **Pressure fluctuations on a vertical wall during extreme run-up cycles**. In ASME 33rd INTERNATIONAL CONFERENCE ON OCEAN, OFFSHORE AND ARCTIC ENGINEERING (OMAE 2014), San Francisco, CA, JUN 08-13 2014. SYMPOSIA Structures, Safety and Reliability, 4A:V04AT02A038. DOI: 10.1115/OMAE2014-23444
3. M. Colom, M. Lebrun, A. Buades, and J.-M. Morel. **A non-parametric approach for the estimation of intensity-frequency dependent noise**. In IEEE 21st INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2014), Paris, FRANCE, OCT 27-30 2014, p. 4261-4265. DOI: 10.1109/ICIP.2014.7025865
4. E. Contal, V. Perchet, N. Vayatis. **Gaussian process optimization with mutual information**. JOURNAL OF MACHINE LEARNING RESEARCH WORKSHOP AND CONFERENCE PROCEEDINGS, 32:253-261. 31st International Conference on Machine Learning (ICML 2014), Beijing, CHINA, JUN 21-26 2014.
5. J. Costes, J.-M. Ghidaglia, P. Muguerra, K. L. Nielsen, X. Riou, J.-P. Saut and N. Vayatis. **On the simulation of offshore oil facilities at the system level**. In 10th INTERNATIONAL MODELICA CONFERENCE, Lund, SWEDEN, MAR 10-12 2014, p. 799-808. DOI : 10.3384/ECP14096799
6. C. de Franchis, E. Meinhardt-Llopis, J. Michel, J.-M. Morel, and G. Facciolo. **Automatic sensor orientation refinement of pleiades stereo images**. In IEEE INTERNATIONAL GEOSCIENCE AND REMOTE SENSING SYMPOSIUM (IGARSS 2014), Quebec,

CANADA, JUL 13-18 2014, p. 1639–1642. DOI: 10.1109/IGARSS.2014.6946762

7. L. Desvillettes, K. Fellner. **Exponential convergence to equilibrium for nonlinear reaction-diffusion systems arising in reversible chemistry**. SYSTEM MODELING AND OPTIMIZATION, 443:96-104, 2014. 26th IFIP TC 7 Conference, CSMO 2013, Klagenfurt, AUSTRIA, SEP 9-13 2013. ISBN: 978-3-662-45503-6. DOI : 10.1007/978-3-662-45504-3_9
8. M. Lebrun, M. Colom, and J.-M. Morel. **The Noise Clinic: a universal blind denoising algorithm**. In IEEE 21st INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2014), Paris, FRANCE, OCT 27-30 2014, p. 2674-2678. DOI: 10.1109/ICIP.2014.7025541
9. R. Lemonnier, K. Scaman, N. Vayatis. **Tight bounds for influence in diffusion networks and application to bond percolation and epidemiology**. In Z. Ghahramani and M. Welling and C. Cortes and N.D. Lawrence and K.Q. Weinberger, ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS 27 (NIPS 2014), Montreal, CANADA, DEC 8-13 2014.
10. J. Lezama, R. Grompone von Gioi, G. Randall, J.-M. Morel. **Finding vanishing points via point alignments in image primal and dual domains**. In IEEE INTERNATIONAL CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR 2014), Columbus, OH, JUN 23-28 2014, p. 509-515. DOI: 10.1109/CVPR.2014.72
11. J. Lezama, R. Grompone von Gioi, G. Randall, J.-M. Morel. **A contrario detection of good continuation of points**. In IEEE 21st INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2014), Paris, FRANCE, OCT 27-30 2014, p. 4757-4761. DOI: 10.1109/ICIP.2014.7025964
12. J.-M. Morel, A. B. Petro, C. Sbert. **What is the right center/surround for Retinex?** In IEEE 21st INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2014), Paris, FRANCE, OCT 27-30 2014, p. 4552–4556. DOI: 10.1109/ICIP.2014.7025923
13. J.-C. Papin, C. Denoual, L. Colombet, and R. Namyst. **Dynamic load balancing with pair potentials**. In Lopes, L. EURO-PAR 2014: PARALLEL PROCESSING WORKSHOPS, PT II, Lecture Notes in Computer Science, 8806: 462–473, 2014. 20th EuroPar International Workshops, Porto, PORTUGAL, AUG 25-26 2014. ISBN 978-3-319-14312-5 - 978-3-319-14313-2,. DOI: 10.1007/978-3-319-14313-2_39
14. D. Tward, J. Jovicich, A. Soricelli, G. Frisoni, A. Troune, L. Younes, and M. Miller. **Improved reproducibility of neuroanatomical definitions through diffeomorphometry and complexity reduction**. In Wu, G. and Zhang, D. and Zhou, L. MACHINE LEARNING IN MEDICAL IMAGING (MLMI 2014), Lecture Notes in Computer Science, 8679:223– 230, 2014. 5th International Workshop on Machine Learning in Medical Imaging (MLMI), Massachusetts Inst Technol, Cambridge, MA, SEP 14 2014. ISBN 978-3-319-10580-2 - 978-3-319-10581-9. DOI: 10.1007/978-3-319-10581-9_28
15. L. Raad, A. Desolneux, and J.-M. Morel. **Locally Gaussian exemplar based texture synthesis**. In IEEE 21st INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2014), Paris, FRANCE, OCT 27-30 2014, p. 4667 - 4671. DOI: 10.1109/ICIP.2014.7025946
16. M. Rais, C. Thiebaut, J.-M. Delvit, J.-M. Morel. **A tight multiframe registration problem with application to Earth observation satellite design**. In IEEE INTERNATIONAL CONFERENCE ON IMAGING SYSTEMS AND TECHNIQUES (IST 2014), Santorini, GREECE, OCT 14-17 2014, p. 6-10. DOI: 10.1109/IST.2014.6958436
17. N. Vayatis. **Applications of concentration inequalities for statistical scoring and ranking problems**. In A. Guillin, ESAIM PROCEEDINGS, 44(2014):99-109, JAN 2014. Journées MAS 2012, Clermont-Ferrand, FRANCE, 29-31 AUG 2012. DOI: 10.1051/proc/201444005
18. I. Rey-Otero, J.-M. Morel, M. Delbracio. **An analysis of scale-space sampling in SIFT**. In IEEE 21st INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2014), Paris, FRANCE, OCT 27-30, 2014, p. 4847–4851. DOI: 10.1109/ICIP.2014.7025982
19. Zhongwei Tang, P. Monasse, J.-M. Morel. **Improving the matching precision of SIFT**. In IEEE 21st INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2014), Paris, FRANCE, OCT 27-30 2014, p. 5756-5760. DOI: 10.1109/ICIP.2014.7026164

2015

1. T. Abadie, F. Dias, T. Cox, and J.-M. Ghidaglia. **On the wavemaker theory for two fluids**. In ASME 34th INTERNATIONAL CONFERENCE ON OCEAN, OFFSHORE AND ARCTIC ENGINEERING (OMAE 2015), St John's, CANADA, MAY 31-JUN 05 2015, 7:V007T06A081. ISBN: 978-0-7918-5657-4. DOI: 10.1115/OMAE2015-41612
2. C. P. Allier, S. Vinjimore Kesavan, O. Cioni, F. Momey, T. Bordy, L. Herve, S. Morel, F. Navarro, M. Menneteau, B. Chalmond, D. Frieda, E. Sulpice, X. Gidrol, and J.M. Drinten. **Lensfree video microscopy: high throughput monitoring and cell tracking of 2D cell cultures**. In Beaurepaire, E. and So, PTC and Pavone, F. and Hillman, E. M., ADVANCED MICROSCOPY TECHNIQUES IV; AND NEUROPHOTONICS II, Proceedings of SPIE, vol. 9536, 2015. SPIE European Conference on Biomedical Optics, Munich, GERMANY, JUN 21-25 2015. DOI:10.1117/12.1183468

3. P. Arias and J.-M. Morel. **Towards a Bayesian video denoising method**. In Battiato, S., BlancTalon, J., Gallo, G., Philips, W., Popescu, D., and Scheunders, P., *ADVANCED CONCEPTS FOR INTELLIGENT VISION SYSTEMS (ACIVS 2015)*, Lecture Notes in Computer Science, 9386:107–117, 2015. 16th International Conference on Advanced Concepts for Intelligent Vision Systems (ACIVS), Catania, ITALY, OCT 26-29 2015. DOI: 10.1007/978-3-319-25903-1_10
4. J. M. L. Bernard. **On novel non singular contour integrals for radiation surface integrals and near-field Physical Optics**. In *PROCEEDINGS OF THE 2015 INTERNATIONAL CONFERENCE ON ELECTROMAGNETICS IN ADVANCED APPLICATIONS (ICEAA 2015)*, p. 293–296. 17th International Conference on Electromagnetics in Advanced Applications (ICEAA) / 5th IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (IEEE-APWC), Torino, ITALY, SEP 07-11 2015. DOI: 10.1109/ICEAA.2015.7297121
5. J. M. L. Bernard and N. Mallejac. **Theory of couplings in electromagnetism: novel results and numerical removal of couplings**. In *PROCEEDINGS OF THE 2015 INTERNATIONAL CONFERENCE ON ELECTROMAGNETICS IN ADVANCED APPLICATIONS (ICEAA 2015)*, p. 297–300. 17th International Conference on Electromagnetics in Advanced Applications (ICEAA) / 5th IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (IEEE-APWC), Torino, ITALY, SEP 07-11 2015. DOI: 10.1109/ICEAA.2015.7297122
6. J. Brennan and F. Dias. **Nonlinear interactions in crossing sea states**. In *ASME 34th INTERNATIONAL CONFERENCE ON OCEAN, OFFSHORE AND ARCTIC ENGINEERING (OMAE 2015)*, St John's, CANADA, MAY 31-JUN 05 2015, 3:V003T02A018. ISBN: 978-0-7918-5657-4. DOI: 10.1115/OMAE2015-41400
7. A.-K. Carton, P. Milioni de Carvalho, Z. Lj, C. Dromain, and S. Muller. **Assessment of mass detection performance in contrast enhanced digital mammography**. In MelloThoms, CR and Kupinski, MA, *MEDICAL IMAGING 2015: IMAGE PERCEPTION, OBSERVER PERFORMANCE, AND TECHNOLOGY ASSESSMENT*. Proceedings of SPIE, vol. 9416, 2015. SeaWorld Orlando, FLA, FEB 21-26 2015. DOI:10.1117/12.2081772.
8. C. Clancy, V. Belissen, R. Tiron, S. Gallagher, and F. Dias. **Spatial variability of extreme sea states on the Irish west coast**. In *ASME 34th INTERNATIONAL CONFERENCE ON OCEAN, OFFSHORE AND ARCTIC ENGINEERING (OMAE 2015)*, St John's, CANADA, MAY 31-JUN 05 2015, 3:V003T02A026. ISBN: 978-0-7918-5657-4. DOI: 10.1115/OMAE2015-41813
9. M. Colom, B. Kerautret, N. Limare, P. Monasse, and J.M. Morel. **IPOL: a new journal for fully reproducible research; analysis of four years development**. In Badra, M and Boukerche, A and Urien, P, *INTERNATIONAL CONFERENCE ON NEW TECHNOLOGIES, MOBILITY AND SECURITY (NTMS 2015)*. 7th International Conference on New Technologies, Mobility and Security (NTMS), Paris, FRANCE, JUL 27-30 2015. DOI :10.1109/NTMS.2015.7266500
10. E. Contal, C. Malherbe, N. Vayatis. **Optimization for Gaussian processes via chaining**. *NIPS WORKSHOP ON BAYESIAN OPTIMIZATION: SCALABILITY AND FLEXIBILITY*. Advances in Neural Information Processing Systems 28 (NIPS 2015), Montreal, CANADA, DEC 7-12 2015.
11. M. Delitala, T. Lorenzi, and M. Melensi. **Competition between cancer cells and T cells under immunotherapy: a structured population approach**. In Volpert, V and Clairambault, J, *WORKSHOP ON MULTISCALE AND HYBRID MODELLING IN CELL AND CELL POPULATION BIOLOGY, ITM WEB OF CONFERENCES*, vol. 5, 2015, UPMC, Paris, FRANCE, MAR 16-17 2015. DOI: 10.1051/itmconf/20150500005
12. F. Dias, J. Brennan, S. P. de Leon, C. Clancy, and J. Dudley. **Local analysis of wave fields produced from hindcasted rogue wave sea states**. In *ASME 34th INTERNATIONAL CONFERENCE ON OCEAN, OFFSHORE AND ARCTIC ENGINEERING (OMAE 2015)*, St John's, CANADA, MAY 31-JUN 05 2015, 3:V003T02A020. ISBN: 978-0-7918-5657-4. DOI: 10.1115/OMAE2015-41458
13. J. Fehrenbach, M. Nikolova, G. Steidl, and P. Weiss, **Bilevel image denoising using gaussianity tests**. In Aujol JF, Nikolova M, Papadakis N, *SCALE-SPACE AND VARIATIONAL METHODS IN COMPUTER VISION*, Lecture Notes in Computer Science, 9087:117-128, 2015. 5th International Conference, SSVN 2015, Lège-Cap Ferret, FRANCE, MAY 31-JUN 4 2015, ISBN : 978-3-319-18460-9
14. J. H. Fitschen, M. Nikolova, F. Pierre, and G. Steidl, **A variational model for color assignment**. In Aujol JF, Nikolova M, Papadakis N, *SCALE-SPACE AND VARIATIONAL METHODS IN COMPUTER VISION*, Lecture Notes in Computer Science, 9087:437-448, 2015. 5th International Conference, SSVN 2015, Lège-Cap Ferret, FRANCE, MAY 31-JUN 4 2015, ISBN : 978-3-319-18460-9
15. B. Gris, S. Durrleman, and A. Trounev. **A sub-Riemannian modular approach for diffeomorphic deformations**. In Nielsen, F and Barbaresco, F, *GEOMETRIC SCIENCE OF INFORMATION (GSI 2015)*, Lecture Notes in Computer Science, 9389:39–47. 2nd International SEE Conference on Geometric Science of Information (GSI), Ecole Polytechnique, Palaiseau, FRANCE, OCT 28-30 2015. DOI: 10.1007/978-3-319-25040-3_5
16. R. Grompone von Gioi and V. Patraucean. **A contrario patch matching, with an application to keypoint matches validation**. In *IEEE 22nd INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2015)*, Québec, CANADA, SEP 27-30 2015, p. 946–950. DOI: 10.1109/ICIP.2015.7350939

17. P. Langlois, R. Nheili, and C. Denis. **Numerical reproducibility: feasibility issues**. In Badra, M and Boukerche, A and Urien, P, INTERNATIONAL CONFERENCE ON NEW TECHNOLOGIES, MOBILITY AND SECURITY (NTMS 2015). 7th International Conference on New Technologies, Mobility and Security (NTMS), Paris, FRANCE, JUL 27-30 2015. DOI: 10.1109/NTMS.2015.7266509
18. A. Le Coënt, F. de Vuyst, C. Rey, L. Chamoin, and L. Fribourg. **Guaranteed control of switched control systems using model order reduction and state-space bisection**. In Étienne André and Goran Frehse, OPEN ACCESS SERIES IN INFORMATICS (OASICS 2015), vol.44, 2015. 2nd International Workshop on Synthesis of Complex Parameters (SynCoP'15), London UK, APR 11 2015. ISBN 978-3-939897-82-8. DOI: 10.4230/OASICS.SynCoP.2015.33
19. Z. Li, A. K. Carton, S. Muller, R. Iordache, and A. Desolneux. **The effect of NPS calculation method on power-law coefficient estimation accuracy in breast texture modeling**. In MEDICAL IMAGING 2015: IMAGE PERCEPTION, OBSERVER PERFORMANCE, AND TECHNOLOGY ASSESSMENT, Proceedings of SPIE, vol. 9416, 2015. SeaWorld Orlando, FLA, FEB 21-26 2015. DOI:10.1117/12.2081764.
20. T. Lorenzi, R. H. Chisholm, A. Lorz, A. K. Larsen, L. N. de Almeida, A. Escargueil, and J. Clairambault. **Emergence of cytotoxic resistance in cancer cell populations: from individual-level mechanisms to population-level consequences**. In Volpert, V and Clairambault, J, WORKSHOP ON MULTISCALE AND HYBRID MODELLING IN CELL AND CELL POPULATION BIOLOGY, ITM Web of Conferences, vol. 5, 2015, UPMC, Paris, FRANCE, MAR 16-17 2015. DOI: 10.1051/itmconf/20150500009
21. S. Masfaraud, F. Danes, P.-E. Dumouchel, F. De Vuyst, and N. Vayatis. **Optimisation d'architecture pour les boîtes de vitesses**. In PROCEEDINGS OF THE SIA CONFERENCE, Société des ingénieurs de l'automobile, Montigny-le-Bretonneux, MAR 18-19 2015.
22. Y. Meyer. **Quasicrystals and control theory**. In Baklouti, A and Elkacimi, A and Kallel, S and Mir, N, MIMS-GGTM : In Honour of Mohammed Salah Baouendi, ANALYSIS AND GEOMETRY, Springer Proceedings in Mathematics & Statistics, 127:219–229. ISBN: 978-3-319-17442-6 - 978-3-319-17443-3. Mediterranean-Institute-for-the-Mathematical-Sciences (MIMS) and the Geometry-and-Topology-Grouping-for-the-Maghreb (GGTM) International Conference, Tunis, TUNISIA, MAR 24-27 2014. DOI : 10.1007/978-3-319-17443-3_12
23. T. Moreau, L. Oudre, N. Vayatis. **Distributed Convolutional Sparse Coding via Message Passing Interface**. NIPS WORKSHOP ON NONPARAMETRIC METHODS FOR LARGE SCALE REPRESENTATION LEARNING. Advances in Neural Information Processing Systems 28 (NIPS 2015), Montreal, CANADA, DEC 7-12 2015.
24. N. Pierazzo, J.-M. Morel, and G. Facciolo. **Optimizing the data adaptive dual domain denoising algorithm**. In Pardo, A and Kittler, J, PROGRESS IN PATTERN RECOGNITION, IMAGE ANALYSIS, COMPUTER VISION, AND APPLICATIONS (CIARP 2015), Lecture Notes in Computer Science, 9423:358–365. ISBN: 978-3-319-25751-8 - 978-3-319-25750-1. 20th Iberoamerican Congress on Pattern Recognition (CIARP), Montevideo, URUGUAY, NOV 09-12 2015. DOI: 10.1007/978-3-319-25751-8_43
25. N. Pierazzo, M. E. Rais, J. M. Morel, and G. Facciolo. **DA3D: Fast and data adaptive dual domain denoising**. In IEEE 22nd INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2015), Québec, CANADA, SEP 27-30 2015, p. 432–436. DOI: 10.1109/ICIP.2015.7350835
26. L. Raad, A. Desolneux, J.-M. Morel. **Conditional Gaussian models for texture synthesis**. In Aujol JF, Nikolova M, Papadakis N, SCALE-SPACE AND VARIATIONAL METHODS IN COMPUTER VISION, Lecture Notes in Computer Science, 9087:474-485, 2015. 5th International Conference, SSVM 2015, Lège-Cap Ferret, FRANCE, MAY 31-JUN 4 2015, ISBN : 978-3-319-18460-9
27. L. Raad, A. Desolneux, and J.-M. Morel. **Multiscale exemplar based texture synthesis by locally Gaussian models**. In: Pardo, A. and Kittler, J., PROGRESS IN PATTERN RECOGNITION, IMAGE ANALYSIS, COMPUTER VISION, AND APPLICATIONS (CIARP 2015), Lecture Notes in Computer Science, 9423:435–443, 2015. ISBN: 978-3-319-25751-8 - 978-3-319-25750-1. 20th Iberoamerican Congress on Pattern Recognition (CIARP), Montevideo, URUGUAY, NOV 09-12 2015. DOI: 10.1007/978-3-319-25751-8_52
28. A. Rafiee, D. Dutykh, and F. Dias. **Numerical simulation of wave impact on a rigid wall using a two-phase compressible SPH method**. In Walther, JH, IUTAM SYMPOSIUM ON PARTICLE METHODS IN FLUID DYNAMICS, Procedia IUTAM, 18:123–137, 2015. IUTAM Symposium on Particle Methods in Fluid Dynamics, Lyngby, DENMARK, OCT 15-17 2012. DOI: 10.1016/j.piutam.2015.11.013
29. M. Rais, J.-M. Morel, and G. Facciolo. **Iterative gradient-based shift estimation: to multiscale or not to multiscale?** In: Pardo, A. and Kittler, J., PROGRESS IN PATTERN RECOGNITION, IMAGE ANALYSIS, COMPUTER VISION, AND APPLICATIONS (CIARP 2015), Lecture Notes in Computer Science, 9423:416–423. ISBN: 978-3-319-25751-8 - 978-3-319-25750-1. 20th Iberoamerican Congress on Pattern Recognition (CIARP), Montevideo, URUGUAY, NOV 09-12 2015. DOI: 10.1007/978-3-319-25751-8_50
30. I. Rey-Otero, Ives, M. Delbraccio, and J.-M. Morel. **Comparing feature detectors: A bias in the repeatability criteria**. In IEEE 22nd INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP 2015), Québec, CANADA, SEP 27-30 2015, pp. 3024-3028. DOI: 10.1109/ICIP.2015.7351358

31. D. Sarkar, E. Contal, N. Vayatis, and F. Dias. **A machine learning approach to the analysis of wave energy converters**. In ASME 34TH INTERNATIONAL CONFERENCE ON OCEAN, OFFSHORE AND ARCTIC ENGINEERING (OMAE 2015), St John's, CANADA, MAY 31-JUN 05 2015, 9:V009T09A019. ISBN: 978-0-7918-5657-4. DOI: 10.1115/OMAE2015-41523
32. K. Scaman, A. Kalogeratos, and N. Vayatis. **A greedy approach for dynamic control of diffusion processes in networks**. In IEEE 27TH INTERNATIONAL CONFERENCE ON TOOLS WITH ARTIFICIAL INTELLIGENCE (ICTAI 2015), Vietri sul Mare, ITALY, NOV 09-11 2015, p. 652–659. DOI: 10.1109/ICTAI.2015.99
33. K. Scaman, R. Lemonnier, and N. Vayatis. **Anytime influence bounds and the explosive behavior of continuous-time diffusion networks**. In C. Cortes, N. D. Lawrence, D. D. Lee, M. Sugiyama, and R. Garnett, ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS 28 (NIPS 2015), Montreal, CANADA, DEC 7-12 2015.
34. K. Scaman, A. Kalogeratos, and N. Vayatis. **Learning to Suppress SIS Epidemics in Networks**. NIPS WORKSHOP NETWORKS IN THE SOCIAL AND INFORMATION SCIENCES. Advances in Neural Information Processing Systems 28 (NIPS 2015), Montreal, CANADA, DEC 7-12 2015.
35. T. S. Stefanakis, F. Dias, C. Synolakis. **Tsunami generation above a sill**. PURE AND APPLIED GEOPHYSICS, 172(3-4):985-1002, MAR 2015. 26th International Tsunami Symposium, Gocek, TURKEY, SEP 25-27, 2013. DOI: 10.1007/s00024-014-1021-6.
36. R. Tiron, S. Gallagher, E. Gleeson, F. Dias, and R. McGrath. **The future wave climate of Ireland: from averages to extremes**. In Huang, N, IUTAM SYMPOSIUM ON THE DYNAMICS OF EXTREME EVENTS INFLUENCED BY CLIMATE CHANGE (2013), Procedia IUTAM, 17:40–46, 2015. IUTAM Symposium on the dynamics of extreme events influenced by climate change, Lanzhou, PEOPLES R CHINA, SEP 23-25 2015. DOI: 10.1016/j.piutam.2015.06.007
37. Z. Tang, P. Monasse, and J.-M. Morel. **Reflexive symmetry detection in single image**. In Boissonnat, JD and Cohen, A and Gibaru, O and Gout, C and Lyche, T and Mazure, ML and Schumaker, LL, CURVES AND SURFACES, Lecture Notes in Computer Science, 9213:452-460. DOI: 10.1007/978-3-319-22804-4_31.
38. S. Xu, F. Dias. **A fresh look on old analytical solutions for water waves on a constant slope**. In PROCEEDINGS OF THE ESTONIAN ACADEMY OF SCIENCES, 64(3, S, SI):422-429. IUTAM Symposium on complexity of nonlinear waves, Tallinn, ESTONIA, SEP 08-12, 2014. DOI: 10.3176/proc.2015.3S.13

2016

1. L. Almeida, R. Chisholm, J. Clairambault, A. Escargueil, T. Lorenzi, A. Lorz, and E. Trelat. **Phenotype heterogeneity in cancer cell populations**. In Simos, T and Tsitouras, C, INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM-2015), AIP Conference Proceedings, vol. 1738, 2016. International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29 2015.
2. A. Buades and R. Grompone von Gioi. **Visual system inspired algorithm for contours, corner and T-junction detection**. In Beghdadi, A and Bourennane, S and Bouzerdoum, A and Pedersen, M and Oudre, L and Jiang, R, 6th EUROPEAN WORKSHOP ON VISUAL INFORMATION PROCESSING (EUVIP 2016), Marseille, FRANCE, OCT 25-27 2016. DOI: 10.1109/EUVIP.2016.7764586
3. C. Denis, P. d. O. Castro, and E. Petit. **Verificarlo: checking floating point accuracy through Monte Carlo arithmetic**. In Montuschi, P and Schulte, M and Hormigo, J and Oberman, S and Revol, N, IEEE 23rd SYMPOSIUM ON COMPUTER ARITHMETIC (ARITH), Santa Clara, CA, JUL 10-13 2016, p. 55–62. DOI: 10.1109/ARITH.2016.31
4. F. De Vuyst, T. Gasc, R. Motte, M. Peybernes, R. Poncet. **Lagrange-flux Eulerian schemes for compressible multimaterial flows**. In PROCEEDINGS OF THE VII EUROPEAN CONGRESS ON COMPUTATIONAL METHODS IN APPLIED SCIENCES AND ENGINEERING (ECCOMAS), Crete Island, JUN 5-10 2016, p. 1165-1178. ISBN: 978-618-82844-0-1. DOI: 10.7712/100016.1877.8851
5. L. Di Martino, A. Fernandez, R. Grompone von Gioi, F. Lecumberry, and J. Preciozzi. **A statistical approach to reliability estimation for fingerprint recognition**. In Bromme, A and Busch, C and Rathgeb, C and Uhl, A, PROCEEDINGS OF THE 15TH INTERNATIONAL CONFERENCE OF THE BIOMETRICS SPECIAL INTEREST GROUP (BIOSIG 2016), Lecture Notes in Informatics Proceedings, vol. P-260, 2016. 15th International Conference of the Biometrics Special Interest Group (BIOSIG), Darmstadt, GERMANY, SEP 21-23, 2016. DOI: 10.1109/BIOSIG.2016.7736906
6. B. Galerne, A. Leclaire, and L. Moisan. **Microtexture inpainting through Gaussian conditional simulation**. In IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING PROCEEDINGS (ICASSP 2016), Shanghai, PEOPLES R CHINA, MAR 20-25 2016, p. 1204–1208. DOI: 10.1109/ICASSP.2016.7471867
7. T. Gasc, F. De Vuyst, M. Peybernes, R. Poncet, R. Motte. **Building a more efficient Lagrange-remap scheme thanks to performance modeling**. In PROCEEDINGS OF THE VII EUROPEAN CONGRESS ON COMPUTATIONAL METHODS IN APPLIED SCIENCES AND ENGINEERING (ECCOMAS), Crete Island, JUN 5-10 2016, p. 1191-1204. ISBN: 978-618-82844-0-1. DOI: 10.7712/100016.1879.12210
8. A. Kalogeratos, P. Zagorisios, and A. Likas. **Improving text stream clustering using term burstiness and co-burstiness**. In N.

Bassiliades, A. Bikakis, D. Vrakas, I. Vlahavas, G. Vouros, 9th HELLENIC CONFERENCE ON ARTIFICIAL INTELLIGENCE (SETN 2016), Thessaloniki, GREECE, MAY 18-20 2016. DOI: 10.1145/2903220.2903229

9. I. Kaltenmark, A. Trouvé. **Partial matchings and growth mapped evolutions in shape spaces**. In PROCEEDINGS OF 29th IEEE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION WORKSHOPS (CVPRW 2016), Las Vegas, NV, JUN 26-JUL 01 2016, p. 990-998. DOI: 10.1109/CVPRW.2016.127
10. P. Langlois, R. Nheili, and C. Denis. **Recovering numerical reproducibility in hydrodynamic simulations**. In Montuschi, P and Schulte, M and Hormigo, J and Oberman, S and Revol, N, IEEE 23ND SYMPOSIUM ON COMPUTER ARITHMETIC (ARITH), Santa Clara, CA, JUL 10-13, 2016, p.63-70.
11. M. Lebrun, J. Darbon, J.-M. Morel. **A numerical implementation of landscape evolution models**. In SECOND CONFERENCE ON FORWARD MODELLING OF SEDIMENTARY SYSTEMS. From desert to deep marine depositional systems, APR 25-28 2016, Trondheim, Norway. EAGE (European Association of Geoscientists & Engineers). DOI: 10.3997/2214-4609.201600381
12. A. Le Coent, L. Fribourg, N. Markey, F. De Vuyst, and L. Chamoin. **Distributed synthesis of state-dependent switching control**. In Larsen, KG and Potapov, I and Srba, J, REACHABILITY PROBLEMS (RP 2016), Lecture Notes in Computer Science, 9899:119–133, 2016. 10th International Workshop on Reachability Problems (RP), Aalborg, DENMARK, SEP 19-21 2016. DOI: 10.1007/978-3-319-45994-3_9
13. A. Le Coent, L. Fribourg, and R. Soulat. **Compositional analysis of boolean networks using local fixed-point iterations**. In Larsen, KG and Potapov, I and Srba, J, REACHABILITY PROBLEMS (RP 2016), Lecture Notes in Computer Science, 9899:134–147. 10th International Workshop on Reachability Problems (RP), Aalborg, DENMARK, SEP 19-21 2016. DOI: 10.1007/978-3-319-45994-3_10
14. A. Le Coent, J. A. d. Sandretto, A. Chapoutot, and L. Fribourg. **Control of nonlinear switched systems based on validated simulation**. In Abraham, E and Bogomolov, S, PROCEEDINGS OF THE 2016 WORKSHOP ON SYMBOLIC AND NUMERICAL METHODS FOR REACHABILITY ANALYSIS (SNR 2016). International Workshop on Symbolic and Numerical Methods for Reachability Analysis (SNR), Vienna, AUSTRIA, APR 11 2016. ISBN: 978-1-5090-3079-8. DOI: 10.1109/SNR.2016.7479377
15. Z. Li, A. Desolneux, S. Muller, and A.-K. Carton. **A novel 3D stochastic solid breast texture model for x-ray breast imaging**. In Tingberg, A and Lang, K and Timberg, P, BREAST IMAGING (IWDM 2016), Lecture Notes in Computer Science, 9699:660–667, 2016. 13th International Workshop on Breast Imaging (IWDM), Malmo, SWEDEN, JUN 19-22 2016. DOI: 10.1007/978-3-319-41546-8_82
16. T. Lorenzi, R. H. Chisholm, A. Lorz, A. K. Larsen, L. N. de Almeida, A. Escargueil, and J. Clairambault. **Emergence of cytotoxic resistance in cancer cell populations: single-cell mechanisms and population-level consequences**. In Simos, T and Tsitouras, C, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM-2015), AIP Conference Proceedings, vol.1738, 2016. International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29 2015. DOI: 10.1063/1.4952112
17. S. Masfaraud, F. Danes, P.-E. Dumouchel, F. De Vuyst, N. Vayatis. **Automatized gearbox architecture design exploration by exhaustive graph generation**. In PROCEEDINGS OF THE 12th WORLD CONGRESS ON COMPUTATIONAL MECHANICS (WCCM XII), Seoul, KOREA, JUL 24-29 2016.
18. M. Nikolova. **Relationship between the optimal solutions of least squares, regularized with $l(0)$ -norm and constrained by k -sparsity**. APPLIED AND COMPUTATIONAL HARMONIC ANALYSIS, 41(1, SI):237–265, JUL 2016. 5th Tri-Annual International Conference on Computational Harmonic Analysis (ICCHA), Nashville, TN, MAY 19-23 2014. DOI: 10.1016/j.acha.2015.10.010
19. R. Poncet, M. Peybernes, T. Gasc and F. De Vuyst. **Performance modeling of a compressible hydrodynamics solver on multicore CPUs**. In Joubert, G.R., Leather, H., Parsons, M., Peters, F., Sawyer, M., PARALLEL COMPUTING: ON THE ROAD TO EXASCALE, IOS Press Ebooks, Advances in parallel computing Series, 27:449-458, 2016. International Conference on Parallel Computing (ParCo 2015), Edinburgh, SCOTLAND, SEP 01-04 2015. ISBN: 978-1-61499-620-0 - 978-1-61499-621-7. DOI 10.3233/978-1-61499-621-7-449
20. M. Rais, J.-M. Morel, C. Thiebaud, J.-M. Delvit, G. Facciolo. **Improving the accuracy of a Shack-Hartmann wavefront sensor on extended scenes**. JOURNAL OF PHYSICS: CONFERENCE SERIES, 756(1):012002, OCT 2016. DOI: 10.1088/1742-6596/756/1/012002
21. B. Rajaei, R. Grompone von Gioi, and J.-M. Morel. **From line segments to more organized gestalts**. In IEEE SOUTHWEST SYMPOSIUM ON IMAGE ANALYSIS AND INTERPRETATION (SSIAI 2016), Santa Fe, NM, MAR 06-08 2016, p. 137–140. DOI: 10.1109/SSIAI.2016.7459194

2017

1. M. Arévalo, C. Escobar, P. Monasse, N. Monzón, M. Colom. **The IPOL Demo System: A Scalable Architecture of Microservices for Reproducible Research**. In REPRODUCIBLE RESEARCH IN PATTERN RECOGNITION (RRPR 2016), Lecture Notes in Computer Science, 10214:3-16, 2017. ISBN: 978-3-319-56413-5 - 978-3-319-56414-2. DOI: 10.1007/978-3-319-56414-2_1.
2. P. Arias, M. Nikolova. **Below the surface of the non-local Bayesian image denoising method**. In Lauze F., Dong Y., Dahl A. SCALE SPACE AND VARIATIONAL METHODS IN COMPUTER VISION (SSVM 2017), Lecture Notes In Computer Science, 10302: 208-220, 2017. ISBN 978-3-319-58770-7 – 978-3-319-58771-4. 6th International Conference, SSVM 2017, Kolding, DENMARK, JUN 4-8, 2017. DOI: 10.1007/978-3-319-58771-4_17
3. D. Bassir, P. Salzenstein, and M. Zhang. **Optimization of coupled device based on optical fiber with crystalline and integrated resonators**. In Bertolotti, M and Haus, JW and Zheltikov, AM, NONLINEAR OPTICS AND APPLICATIONS X, Proceedings of SPIE, vol. 10228, 2017. 7th Nonlinear Optics and Applications Conference, Prague, CZECH REPUBLIC, APR 24-25 2017. DOI: 10.1117/12.2264618
4. B. Bernu, F. Delyon, L. Baguet, and M. Holzmann. **Periodic ground states of the electron gas in two and three dimensions**. CONTRIBUTIONS TO PLASMA PHYSICS, 57(10, 1, SI):524–531, NOV 2017. International Conference on Strongly Coupled Coulomb Systems (SCCS 2017), Kiel, GERMANY, JUL 30-AUG 04 2017. DOI: 10.1002/ctpp.201700139
5. Q. Berthet, V. Perchet. **Fast rates for bandit optimization with upper-confidence Frank-Wolfe**. In ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS 31 (NIPS 2017), Long Beach, CA, DEC 4-9 2017.
6. D. Bouche, P. Aguilera, S. Loillier. **Diffraction by curvature and higher-order discontinuities**. In 19th INTERNATIONAL CONFERENCE ON ELECTROMAGNETICS IN ADVANCED APPLICATIONS (ICEAA 2017), Verona, ITALY, SEP 11-15 2017, p. 531-532. DOI: 10.1109/ICEAA.2017.8065298
7. D. P. Bouche, I. V. Andronov, M. Duruflé. **Parabolic equation method approximation for high-frequency diffraction by an elongated body**. In 19th INTERNATIONAL CONFERENCE ON ELECTROMAGNETICS IN ADVANCED APPLICATIONS (ICEAA 2017), Verona, ITALY, SEP 11-15 2017, p. 493-494. DOI: 10.1109/ICEAA.2017.8065287
8. A. Desolneux, A. Leclaire. **Stochastic image reconstruction from local histograms of gradient orientation** In Lauze F., Dong Y., Dahl A., SCALE SPACE AND VARIATIONAL METHODS IN COMPUTER VISION (SSVM 2017), Lecture Notes in Computer Science, 10302: 133-145, 2017. ISBN 978-3-319-58770-7 – 978-3-319-58771-4. 6th International Conference, SSVM 2017, Kolding, Denmark, JUN 4-8, 2017. DOI: 10.1007/978-3-319-58771-4_11
9. T. Douillet-Grellier, R. Pramanik, K. Pan, B. D. Jones, A. Albaiz, J. R. Williams. **Numerical simulation of fracture propagation in layered rock**. In SPHERIC 2017. 12th Spheric International Workshop, Ourense, SPAIN, JUN 13-15, 2017, p. 449-456.
10. T. Ehret, P. Arias, J.-M. Morel. **Global patch search boosts video denoising**. In VISIGRAPP 2017. 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications, Porto, PORTUGAL, FEB 27 – MAR 01 2017, (4: VISAPP):124-134. ISBN 978-989-758-225-7. DOI: 10.5220/0006175601240134
11. G. Facciolo, C. de Franchis, E. Meinhardt-Llopis. **Automatic 3D reconstruction from multi-date satellite images**. In EARTHVISION 2017. CVPRW IEEE/ISPRS WORKSHOP LARGE SCALE COMPUTER VISION FOR REMOTE SENSING IMAGERY. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Honolulu, HI, JUL 21-26 2017, p. 57-66. DOI: 10.1109/CVPRW.2017.198
12. B. Galerne, A. Leclaire, J. Rabin. **Semi-discrete Optimal Transport in Patch Space for Enriching Gaussian Textures**. In Nielsen F., Barbaresco F., GEOMETRIC SCIENCE OF INFORMATION (GSI 2017), Lecture Notes in Computer Science 10589:100-108, 2017. ISBN 978-3-319-68444-4 - 978-3-319-68445-1. 3rd International Conference GSI 2017, Paris, France, NOV 07-09 2017. DOI: 10.1007/978-3-319-68445-1_12
13. E. Gleeson, S. Gallagher, C. Clancy, and F. Dias. **NAO and extreme ocean states in the Northeast Atlantic Ocean**. ADVANCES IN SCIENCE AND RESEARCH, 14:23–33, FEB 10 2017. 16th EMS Annual Meeting / 11th European Conference on Applied Climatology (ECAC), Trieste, ITALY, SEP 12-16, 2016. DOI: 10.5194/asr-14-23-2017
14. I. Kaltenmark, B. Charlier, and N. Charon. **A general framework for curve and surface comparison and registration with oriented varifolds**. In IEEE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR 2017), Honolulu, HI, JUL 21-26, 2017. p. 4580–4589. DOI: 10.1109/CVPR.2017.487
15. J. Kwon, V. Perchet. **Online Learning and Blackwell Approachability with Partial Monitoring: Optimal Convergence Rates**, PROCEEDINGS OF MACHINE LEARNING RESEARCH (PMLR) 54:604-613, 2017. 20th International Conference on Artificial Intelligence and Statistics (AISTATS 2017), Fort Lauderdale, FLA, APR 20-22 2017.
16. A. Le Coent, F. De Vuyst, L. Chamoin, and L. Fribourg. **Control synthesis of nonlinear sampled switched systems using Euler's method**. ELECTRONIC PROCEEDINGS IN THEORETICAL COMPUTER SCIENCE, 247:18–33, 2017. 3rd International Workshop on Symbolic and Numerical Methods for Reachability Analysis (SNR17), European Joint Conferences on Theory

and Practice of Software (ETAPS17), Uppsala, SWEDEN, APR 22, 2017. DOI: 10.4204/EPTCS.247.2

17. R. Lemonnier, K. Scaman, and A. Kalogeratos. **Multivariate Hawkes processes for large-scale inference**. In 31st AAAI CONFERENCE ON ARTIFICIAL INTELLIGENCE (AAAI-17), Association for the Advancement of Artificial Intelligence, San Francisco, CA, FEB 04-09 2017, p. 2168-2174.
18. C. Malherbe, N. Vayatis. **Global optimization of Lipschitz functions**. In 34th INTERNATIONAL CONFERENCE ON MACHINE LEARNING (ICML 2017), Sydney AUSTRALIA, AUG 06-11 2017, p.2314-2323.
19. J. Mantilla, L. Oudre, R. Barrois, A. Vienne, D. Ricard. **Template-DTW based on inertial signals: preliminary results for step characterization**. In 39th ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY (EMBC 2017), JuJe Island, KOREA, JUL 11-15 2017, p. 2267-2270. DOI: 10.1109/EMBC.2017.8037307
20. L. Minvielle, M. Atig, R. Serra, M. Mougeot, N. Vayatis. **Fall detection using smart floor sensor and supervised learning**. 39th ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY (EMBC 2017), JuJe Island, KOREA, JUL 11-15 2017, p. 3445-3448. DOI: 10.1109/EMBC.2017.8037597
21. A. V. Porubov, R. S. Bondarenkov, D. Bouche, and A. L. Fradkov. **Feedback control of monotonic shocks**. JOURNAL OF PHYSICS CONFERENCE SERIES, vol. 788, 2017. 5th International Conference on Problems of Mathematical and Theoretical Physics and Mathematical Modelling (MEPhI 2017), Moscow, RUSSIA, APR 05-07 2016. DOI: 10.1088/1742-6596/788/1/012030
22. C. Truong, L. Oudre, N. Vayatis. **Penalty learning for changepoint detection**. In 25th EUROPEAN SIGNAL PROCESSING CONFERENCE (EUSIPCO 2017), Kos Island, GREECE, AUG 28-SEP 02 2017, p. 1569-1573. DOI: 10.23919/EUSIPCO.2017.8081473
23. L. Zhang, J.-M. Ghidaglia, A. Kumbaro. **Asymptotic preserving property of a semi-implicit method**. In Cancès C., Omnes P. FINITE VOLUMES FOR COMPLEX APPLICATIONS VIII. HYPERBOLIC, ELLIPTIC AND PARABOLIC PROBLEMS (FVCA 2017). Springer Proceedings in Mathematics & Statistics, 200:155-162, 2017. ISBN 978-3-319-57393-9 - 978-3-319-57394-6. DOI: 10.1007/978-3-319-57394-6_17
24. P. Zinemanas, P. Arias, G. Haro, E. Gomez. **Visual music transcription of clarinet video recordings trained with audio-based labelled data**. ICCV 2017. 2nd INTERNATIONAL WORKSHOP ON COMPUTER VISION FOR AUDIO-VISUAL MEDIA (CVAVM), Venice, ITALY, OCT 23 2017. DOI: 10.5281/zenodo.848650

2018

1. M. Ancellin, L. Brosset, and J.-M. Ghidaglia. **Numerical study of phase change influence on wave impact loads in LNG tanks on floating structures**. In PROCEEDINGS OF THE ASME 37TH INTERNATIONAL CONFERENCE ON OCEAN, OFFSHORE AND ARCTIC ENGINEERING, Madrid, SPAIN, JUN 17-22, 2018, Vol.9.
2. J. Anger, M. Delbraccio, and G. Facciolo. **Modeling realistic degradations in non-blind deconvolution**. In 2018 25TH IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP), Athens, GREECE, OCT 07-10, 2018, pages 978–982.
3. P. Arias, G. Facciolo, and J.-M. Morel. **A comparison of patch-based models in video denoising**. In PROCEEDINGS 2018 IEEE 13TH IMAGE, VIDEO, AND MULTIDIMENSIONAL SIGNAL PROCESSING WORKSHOP (IVMSP), Information Technologies Institute, Zagori, GREECE, JUN 10-12, 2018.
4. Q. Bammey, P. Bacon, E. Chassande-Mottin, A. Fraysse, and S. Jaffard. **Sparse time-frequency representation of gravitational-wave signals in unions of Wilson bases**. In 2018 26TH EUROPEAN SIGNAL PROCESSING CONFERENCE (EUSIPCO), Rome, ITALY, AUG 03-07, 2018, pages 1755–1759.
5. Q. Bammey, J.-M. Morel, R. Grompone von Gioi. **Automatic detection of demosaicing image artifacts and its use in tampering detection**. In IEEE 1ST CONFERENCE ON MULTIMEDIA INFORMATION PROCESSING AND RETRIEVAL (MIPR 2018), Miami, FL, APR 10-12, 2018, pp 424-429.
6. D. Bassir and P. Salzenstein. **Optimal design of a crystalline and integrated resonator coupled with optical fibre**. In Zhang, X and Li, B and Yu, C and Zhang, X, editor, OPTOELECTRONIC DEVICES AND INTEGRATION VII, volume 10814 of Proceedings of SPIE, 2018. Conference on Optoelectronic Devices and Integration VII, Beijing, PEOPLES R CHINA, OCT 11-13, 2018.
7. T. Briand. **Low memory image reconstruction algorithm from RAW images**. In PROCEEDINGS 2018 IEEE 13TH IMAGE, VIDEO, AND MULTIDIMENSIONAL SIGNAL PROCESSING WORKSHOP (IVMSP), Information Technologies Institute, Zagori, GREECE, JUN 10-12, 2018.
8. N. Brosse, E. Moulines, A. Durmus. **The promises and pitfalls of stochastic gradient Langevin dynamics**. In ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS 31 (NIPS 2018), Montreal, CANADA, DEC 02-08, 2018.

9. B. Charlier, J. Feydy, D. W. Jacobs, and A. Trouve. ***Distortion minimizing geodesic subspaces in shape spaces and computational anatomy***. In Tavares, JMRS and Jorge, RMN, eds, VIPIIMAGE 2017, volume 27 of LECTURE NOTES IN COMPUTATIONAL VISION AND BIOMECHANICS, pages 1135–1144. ECCOMAS, 2018. 6th ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing (VipiIMAGE), Porto, PORTUGAL, OCT 18-20, 2017.
10. M. d'Autume, J.-M. Morel, and E. Meinhardt-Llopis. ***A flexible solution to the osmosis equation for seamless cloning and shadowremoval***. In 2018 25TH IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP), Athens, GREECE, OCT 07-10, 2018, pages 2147–2151.
11. A. Davy, T. Ehret, J.-M. Morel, and M. Delbracio. ***Reducing anomaly detection in images to detection in noise***. In 2018 25TH IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP), Athens, GREECE, OCT 07-10, 2018, pages 1058–1062.
12. T. Ehret, J.-M. Morel, and P. Arias. ***Non-local Kalman: a recursive video denoising algorithm***. In 2018 25TH IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP), Athens, GREECE, OCT 07-10, 2018, pages 3204–3208.
13. T. Ehret, P. Arias. ***On the convergence of PatchMatch and its variants***. In 31st IEEE/CVF CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR), Salt Lake City, UT, JUN 18-23, 2018, pp. 1121-1129.
14. Z. Li, A. Desolneux, S. Muller, P. M. de Carvalho, and A.-K. Carton. ***Comparison of microcalcification detectability in FFDM and DBT using a virtual clinical trial***. In Nishikawa, RM and Samuelson, FW, eds, MEDICAL IMAGING 2018, vol.10577 of Proceedings of SPIE, 2018. Conference on Medical Imaging : Image Perception, Observer Performance, and Technology Assessment, Houston, TX, FEB 11-12, 2018.
15. T. Nikoukhah, R. Grompone von Gioi, M. Colom, J.-M. Morel. ***Automatic JPEG grid detection with controlled false alarms, and its image forensic applications***. In IEEE 1ST CONFERENCE ON MULTIMEDIA INFORMATION PROCESSING AND RETRIEVAL (MIPR 2018), Miami, FL, APR 10-12, 2018, pp 378-383.
16. M. Rodriguez and R. Grompone von Gioi. ***Affine invariant image comparison under repetitive structures***. In 2018 25TH IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP), pages 1203–1207. 25th IEEE International Conference on Image Processing (ICIP), Athens, GREECE, OCT 07-10, 2018.
17. P. Salzenstein, D. Bassir, Y. Hao, and M. Zarubin. ***Dedicated oven for optical resonator heating process***. In Zhang, X and Li, B and Yu, C and Zhang, X, editor, OPTOELECTRONIC DEVICES AND INTEGRATION VII, volume 10814 of Proceedings of SPIE. Conference on Optoelectronic Devices and Integration VII, Beijing, PEOPLES R CHINA, OCT 11-13, 2018.