

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:10.1117/12.12183468

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
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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.
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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.
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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
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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
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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.
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