PUBLICATIONS CMLA 2016

ACL : ARTICLES SCIENTIFIQUES dans revues internationales AVEC comité de lecture
PEER-REVIEWED ARTICLES - JOURNAL PAPERS

1. L. Alvarez, C. Cuenca, J. Esclarin, L. Mazorra, and J.-M. Morel. ***Affine invariant distance using multiscale analysis***. JOURNAL OF MATHEMATICAL IMAGING AND VISION, 55(2, SI):199–209, JUN 2016. DOI: 10.1007/s10851-015-0585-9

2. S. Arguillere, E. Trelat, A. Trouve, and L. Younes. ***Registration of multiple shapes using Constrained optimal control.*** SIAM JOURNAL ON IMAGING SCIENCES, 9(1):344–385, 2016. DOI: 10.1137/15M1006726

3. J. Audiffren, I. Bargiotas, N. Vayatis, P.-P. Vidal, and D. Ricard. ***A non linear scoring approach for evaluating balance: classification of elderly as fallers and non-fallers.*** PLOS ONE, 11(12), DEC 9 2016. DOI: 10.1371/journal.pone.0167456

4. J. Audiffren and E. Contal. **Preprocessing the Nintendo Wii board signal to derive more accurate descriptors of statokinesigrams.** SENSORS, 16(8), AUG 2016. DOI:10.3390/s16081208

5. J.-F. Aujol, M. Nikolova, and N. Papadakis. ***Guest editorial: scale-space and variational methods.*** JOURNAL OF MATHEMATICAL IMAGING AND VISION, 56(2, SI):173–174, OCT 2016. DOI: 10.1007/s10851-016-0679-z

6. R. Barrois, T. Gregory, L. Oudre, T. Moreau, C. Truong, A. A. Pulini, A. Vienne, C. Labourdette, N. Vayatis, S. Buffat, A. Yelnik, C. de Waele, S. Laporte, P. P. Vidal, and D. Ricard. ***An automated recording method in clinical consultation to rate the limp in lower limb osteoarthritis***. PLoS One, 11(10), OCT 24 2016. DOI: 10.1371/journal.pone.0164975

7. Bernard-Champmartin, A., J.-P. Braeunig, C. Fochesato, and T. Goudon. ***A semi-Lagrangian approach for dilute non-collisional fluid-particle flows***. COMMUNICATIONS IN COMPUTATIONAL PHYSICS, 19(3):801–840, MAR 2016. DOI: 10.4208/cicp.180315.110915a

8. H. Bierme and A. Desolneux. ***On the perimeter of excursion sets of shot noise random fields.*** ANNALS OF PROBABILITY, 44(1):521–543, JAN 2016. DOI: 10.1214/14-AOP980

9. S. Bittner, C. Lafargue, I. Gozhyk, N. Djellali, L. Milliet, D. T. Hickox-Young, C. Ulysse, D. Bouche, R. Dubertrand, E. Bogomolny, J. Zyss, and M. Lebental***. Origin of emission from square-shaped organic microlasers***. EPL, 113(5), MAR 2016. DOI: 10.1209/0295-5075/113/54002

10. S. Blusseau, A. Carboni, A. Maiche, J. M. Morel, and R. Grompone von Gioi. ***Measuring the visual salience of alignments by their non-accidentalness***. VISION RESEARCH, 126(SI):192–206, SEP 2016. DOI : 10.1016/j.visres.2015.08.014

11. S. Blusseau and R. Grompone von Gioi. ***Generation and Detection of Alignments in Gabor Patterns.*** IMAGE PROCESSING ON LINE, 6:268–299, 2016. DOI : 10.5201/ipol.2016.177

12. M. Boukobza, F. J. Baud, I. Malissin, and B. Megarbane. ***Lance-Adams syndrome and Parkinsonism with selective Globi Pallidi infarct following shock without cardiac arrest***. BASAL GANGLIA, 6(3):149–151, AUG 2016. DOI: 10.1016/j.baga.2016.03.001

13. V. Brandon, B. Canaud, M. Temporal, and R. Ramis. ***Thermodynamic properties of thermonuclear fuel in inertial confinement fusion*.** LASER AND PARTICLE BEAMS, 34(3):539–544, SEP 2016. DOI: 10.1017/S0263034616000422

14. M. Breden, J.-P. Lessard, and J. D. M. James. ***Computation of maximal local (un)stable manifold patches by the parameterization method***. INDAGATIONES MATHEMATICAE-NEW SERIES, 27(1):340–367, JAN 2016. DOI: 10.1016/j.indag.2015.11.001

15. de la Camara, A., F. Lott, V. Jewtoukoff, R. Plougonven, and A. Hertzog. ***On the gravity wave forcing during the southern stratospheric final warming in LMDZ***. JOURNAL OF THE ATMOSPHERIC SCIENCES, 73(8):3213–3226, AUG 2016. DOI: 10.1175/JAS-D-15-0377.1

16. K. Carrapatoso, I. Tristani, and K.-C. Wu. ***Cauchy problem and exponential stability for the inhomogeneous Landau equation***. ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS, 221(1):363–418, JUL 2016. DOI: 10.1007/s00205-015-0963-x

17. B. Chalmond. ***Scale-space module detection for random fields observed on a graph nonembedded in a metric space***. PATTERN ANALYSIS AND APPLICATIONS, 19(3):665–678, AUG 2016. DOI: 10.1007/s10044-014-0429-z

18. R. H. Chisholm, T. Lorenzi, L. Desvillettes, and B. D. Hughes. ***Evolutionary dynamics of phenotype-structured populations: from individual-level mechanisms to population-level consequences.*** ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK, 67(4), AUG 2016. DOI: 10.1007/s00033-016-0690-7

19. R. H. Chisholm, T. Lorenzi, and A. Lorz. ***Effects of an advection term in nonlocal Lotka-Volterra equations.*** COMMUNICATIONS IN MATHEMATICAL SCIENCES, 14(4):1181–1188, 2016. DOI: 10.4310/CMS.2016.v14.n4.a16

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23. J. Darbon, S. Osher. ***Algorithms for overcoming the curse of dimensionality for certain Hamilton–Jacobi equations arising in control theory and elsewhere***. RESEARCH IN THE MATHEMATICAL SCIENCES. 2016; 3:19. ISSN: 2197-9847 Springer Open, Journal no. 40687. DOI: 10.1186/s40687-016-0068-7

24. J. Delon, A. Desolneux, and T. Guillemot. ***PARIGI: a patch-based approach to remove impulse-Gaussian noise from images***. IMAGE PROCESSING ON LINE, 6:130–154, 2016. DOI: 10.5201/ipol.2016.161

25. Desolneux, A. ***When the a contrario approach becomes generative***. INTERNATIONAL JOURNAL OF COMPUTER VISION, 116(1):46–65, JAN 2016. DOI: 10.1007/s11263-015-0825-x

26. Desolneux, A. and F. Dore. ***An anisotropic a contrario framework for the detection of convergences in images***. JOURNAL OF MATHEMATICAL IMAGING AND VISION, 56(1):32–56, SEP 2016. DOI: 10.1007/s10851-016-0630-3

27. F. De Vuyst, T. Gasc, R. Motte, M. Peybernes, and R. Poncet. ***Lagrange-flux schemes: reformulating second-order accurate Lagrange-remap schemes for better node-based HPC performance***. OIL & GAS SCIENCE AND TECHNOLOGY-REVUE D IFP ENERGIES NOUVELLES, 71(6), NOV-DEC 2016. DOI: 10.2516/ogst/2016019

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29. F. De Vuyst, T. Gasc, R. Motte, M. Peybernes, R. Poncet. ***Lagrange-flux Eulerian schemes for compressible multimaterial flows***, pages 1165-1178. PROCEEDINGS OF THE VII EUROPEAN CONGRESS ON COMPUTATIONAL METHODS IN APPLIED SCIENCES AND ENGINEERING (ECCOMAS), Cretia Island, JUN 5-10 2016. ISBN: 978-618-82844-0-1. DOI: 10.7712/100016.1877.8851

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31. P. D. S. Figueiredo Celestino Gomes, I. C. De Beauchene, N. Panel, S. Lopez, P. De Sepulveda, P. G. Pascutti, E. Solary, and L. Tchertanov. ***Insight on mutation-induced resistance from molecular dynamics simulations of the native and mutated CSF-1R and KIT***. PLOS ONE, 11(7), JUL 28 2016. DOI: 10.1371/journal.pone.0160165

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35. Y. Guo, C. Kim, D. Tonon, and A. Trescases. ***BV-regularity of the Boltzmann equation in non-convex Domains***. ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS, 220(3):1045–1093, JUN 2016. DOI: 10.1007/s00205-015-0948-9

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44. 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), Vanderbilt Univ, Nashville, TN, MAY 19-23, 2014. DOI: 10.1016/j.acha.2015.10.010

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Series, Volume 27: PARALLEL COMPUTING: ON THE ROAD TO EXASCALE, Joubert, G.R., Leather, H., Parsons, M., Peters, F., Sawyer, M., Eds, pp. 449--458 (2016). ISBN: 978-1-61499-620-0 (print) ISBN 978-1-61499-621-7 (online). DOI 10.3233/978-1-61499-621-7-449

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55. Trescases, A. ***On triangular reaction cross-diffusion systems with possible self-diffusion***. BULLETIN DES SCIENCES MATHEMATIQUES, 140(7):796–829, OCT 2016. DOI : 10.1016/j.bulsci.2016.03.008

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PROC Articles dans CONGRES internationaux / nationaux AVEC actes AVEC comité de lecture = PROCEEDINGS PAPERS

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, ed., PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015), volume 1738 of AIP Conference Proceedings, 2016. International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29, 2015.

2. Buades, A. 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, editor, PROCEEDINGS OF THE 2016 6TH EUROPEAN WORKSHOP ON VISUAL INFORMATION PROCESSING (EUVIP). 6th European Workshop on Visual Information Processing (EUVIP), Marseille, FRANCE, OCT 25-27, 2016. DOI: 10.1109/EUVIP.2016.7764586

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6. T. Gasc, F. De Vuyst, M. Peybernes, R. Poncet, R. Motte. ***Building a more efficient Lagrange-remap scheme thanks to performance modeling***, pages 1191-1204. PROCEEDINGS OF THE VII EUROPEAN CONGRESS ON COMPUTATIONAL METHODS IN APPLIED SCIENCES AND ENGINEERING

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15. S. Masfaraud, F. Danes, P.-E. Dumouchel, F. De Vuyst, N. Vayatis. ***Automatized gearbox architecture design exploration by exhaustive graph generation***. PROCEEDINGS OF THE 12TH WORLD CONGRESS ON COMPUTATIONAL MECHANICS (WCCM XII)**, SEOUL, KOREA, JUL 24-29, 2016.**

16. M. Rais, J.-M. Morel, C. Thiebaut, J.-M. Delvit, G. Facciolo. Improving the accuracy of a Shack-Hartmann wavefront sensor on extended scenes. In JOURNAL OF PHYSICS: Conference Series (Vol. 756, No. 1, p. 012002). IOP Publishing, OCT 2016. DOI: 10.1088/1742-6596/756/1/012002

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