

Mathematics

Contents

1	Algebra	2
2	Analysis	2
3	Computer Science	3
4	Numerical Analysis	3
5	Geometry	3
6	Mathematical, Non-linear, and Statistical Physics	4
7	Probability and Statistics	4

1 Algebra

- [1] Francesco Catino, Ilaria Colazzo, Paola Stefanelli Semi-braces and the Yang-Baxter equation *JOURNAL OF ALGEBRA* 483 (2017), 163-187
- [2] Bravi Paolo, ChirivìRocco, Gandini Jacopo, Regular functions on spherical nilpotent orbits in complex symmetric pairs: Classical non-Hermitian cases *KYOTO JOURNAL OF MATHEMATICS* 2017 (2017) 2156-2261
- [3] S. Siciliano, H. Usefi Lie structure of smash products *ISRAEL JOURNAL OF MATHEMATICS* 217 (2017) 93-110
- [4] S. Siciliano, H. Usefi Perfect and semiperfect restricted enveloping algebras *JOURNAL OF ALGEBRA* 472 (2017) 507-518
- [5] S. Siciliano, H. Usefi Enveloping algebras that are principal ideal rings *JOURNAL OF PURE AND APPLIED ALGEBRA* 221 (2017) 2573-2581

2 Analysis

- [1] J. Aroza, E. Mangino, Stability for weighted composition C_0 -semigroups on Lebesgue and Sobolev spaces *RACSAM*, 2017.
- [2] Davide Addona, Luciana Angiuli, Luca Lorenzi, Gianmario Tessitore On coupled systems of Kolmogorov equations with applications to stochastic *ESAIM: COCV* 23: 937–976, 2017.
- [3] Davide Addona, Luciana Angiuli, Luca Lorenzi Hypercontractivity, supercontractivity, ultra-boundedness and stability in *ADVANCES IN NONLINEAR ANALYSIS* pubblicato on line: doi.org/10.1515/anona-2016-0166.
- [4] A.A. Albanese, J. Bonet, W.J. Ricker, The Cesàro operator in the Fréchet spaces ℓ^{p+} and L^{p-} , *GLASGOW MATH. J.* 59:273-287, 2017
- [5] Bergounioux Maitine , Leaci Antonio , Nardi Giacomo , Tomarelli Franco , Fractional sobolev spaces and functions of bounded variation of one variable *FRACTIONAL CALCULUS & APPLIED ANALYSIS* 20 : 936 – 962 , 2017 .
- [6] A. Calcagnì,L. Lombardi,L. Avanzi,E. Pascali Multiple mediation analysis for interval-valued data *STATISTICAL PAPERS* Doi 10.1007/s00362-017-0949-6
- [7] Fusco Nicola , Pallara Diego , On the isoperimetric profile for a mixed Euclidean-Logconvex measure *ATTI DELLA ACCADEMIA NAZIONALE DEI LINCEI. RENDICONTI LINCEI. MATEMATICA E APPLICAZIONI* 28 : 635 – 661 , 2017 .
- [8] Guidetti Davide , Güneysu Batu , Pallara Diego , L^1 -elliptic regularity and $H = W$ on the whole L^p -scale on arbitrary manifolds *ANNALES ACADEMIAE SCIENTIARUM FENNICAE. MATHEMATICA* 42 : 497 – 521 , 2017 .
- [9] L. Hartmann, M. Spreafico, The analytic torsion of the finite metric cone over a compact manifold *J. Math. Soc. Japan* 69: 311-371, 2017.
- [10] L. Hartmann and M. Spreafico, Analytic torsion of the half spheres *Int. J. Math.* 28: 1750072, 2017.
- [11] G. Metafune, M. Sobajima, C. Spina Kernel estimates for elliptic operators with second-order discontinuous coefficients *JOURNAL OF EVOLUTION EQUATIONS* 17:485–522, 2017.
- [12] M. Spreafico, The eta function of the localised Dirac operator for the universal cover of $SL_2(\mathbb{R})$ *Journal of Functional Analysis* 272: 3558-3572 (2017).
- [13] M. Spreafico, Asymptotics of the determinant of the discrete Laplacian on the circle, *Rev. Mat. Complut.* <https://doi.org/10.1007/s13163-017-0233-6>.
- [14] Eduardo Pascali Some remarks on contractive maps *INDIAN JOURNAL OF MATHEMATICS* 59:189-192, 2017

3 Computer Science

- [1] Bilò V , Flammini M , Monaco G , Approximating the revenue maximization problem with sharp demands *THEORETICAL COMPUTER SCIENCE* 662 : 9 – 30 , 2017 .
- [2] Bilò V. , Mavronicolas M. , ϵ -complete decision problems about symmetric nash equilibria in symmetric multi-player games
- [3] Bilò V , Fanelli A , Moscardelli L , On lookahead equilibria in congestion games *MATHEMATICAL STRUCTURES IN COMPUTER SCIENCE* 27(2) : 197 – 214 , 2017 .
- [4] V. Bilò , C. Vinci , On the Impact of Singleton Strategies in Congestion Games Proceedings of the 25th Annual European Symposium on Algorithms, Wadern - (Germany) 4: 1–14 (2017)
- [5] Vittorio Bilò , Ioannis Caragiannis , Angelo Fanelli , Michele Flammini , Gianpiero Monaco , Simple Greedy Algorithms for Fundamental Multidimensional Graph Problems Proceedings of the 44th International Colloquium on Automata, Languages, and Programming Wadern - (Germany) 10: 1-013 (2017).

4 Numerical Analysis

- [1] Lacitignola Deborah , BOZZINI Benedetto , FRITTELLI MASSIMO , SGURA Ivonne , Turing pattern formation on the sphere for a morphochemical reaction-diffusion model for electrodeposition *COMMUNICATIONS IN NONLINEAR SCIENCE & NUMERICAL SIMULATION* 48 : 484 – 508 , 2017 .
- [2] Destrade Michel , Saccomandi Giuseppe , SGURA Ivonne , Methodical fitting for mathematical models of rubber-like materials *PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON. SERIES A* 473 : 1 – 22 , 2017 .
- [3] Chiara D’Autilia Maria , Sgura Ivonne , Bozzini Benedetto , Parameter identification in ODE models with oscillatory dynamics: a Fourier regularization approach *INVERSE PROBLEMS* 33 : 124009 – 124031 , 2017 .
- [4] Massimo Frittelli , Anotida Madzvamuse , Ivonne Sgura , Chandrasekhar Venkataraman , Lumped finite elements for reaction cross-diffusion systems on stationary surfaces *COMPUTERS & MATHEMATICS WITH APPLICATIONS* 74, Iss : 3008 – 3023 , 2017 .
- [5] Massimo Frittelli , Anotida Madzvamuse , Ivonne Sgura , Chandrasekhar Venkataraman , Preserving invariance properties of reaction diffusion systems on stationary surfaces *IMA JOURNAL OF NUMERICAL ANALYSIS* 00 : 1 – 36 , 2017 .
- [6] SGURA Ivonne , BOZZINI Benedetto , XRF map identification problems based on a PDE electrodeposition model *JOURNAL OF PHYSICS D. APPLIED PHYSICS* 50 : 154002 – 154022 , 2017 .
- [7] Garrappa Roberto, Moret Igor, POPOLIZIO MARINA, *COMPUTERS & MATHEMATICS WITH APPLICATIONS*, 74: 0898-1221, 2017.

5 Geometry

- [1] Calvaruso Giovanni, Perrone Antonella, Classification of 3-dimensional left-invariant almost para-contact metric structure *ADVANCES IN GEOMETRY* 17: 265-282, 2017.
- [2] Calvaruso Giovanni, Zaeim Amirhesam On the symmetries of the Lorentzian oscillator group *COLLECTANEA MATHEMATICA* 68: 51-67, 2017.
- [3] Calvaruso Giovanni, Rosado Eugenia Ricci solitons on low-dimensional generalized symmetric spaces *JOURNAL OF GEOMETRY AND PHYSICS* 112: 0393-0440, 2017.

- [4] Calvaruso Giovanni Three-Dimensional Homogeneous Generalized Ricci Solitons *MEDITERRANEAN JOURNAL OF MATHEMATICS* 14: 1-21, 2017.
- [5] Domenico Perrone Taut contact circles and bi-contact metric structures on three-manifolds *ANN. GLOBAL ANAL. GEOM.* 52: 213–235, 2017.

6 Mathematical, Non-linear, and Statistical Physics

- [1] Elena Agliari, Adriano Barra, Chiara Longo, Daniele Tantari, Neural networks retrieving binary patterns in a sea of real ones, *JOURNAL OF STATISTICAL PHYSICS* 168, (2017), 1085.
- [2] Elena Agliari, Alessia Annibale, Adriano Barra, Ton Coolen, Daniele Tantari, Retrieving infinite numbers of patterns in a spin-glass model of immune networks *EURO PHYSICS LETTERS* 117, (2017), 280003.
- [3] Adriano Barra, Giuseppe Genovese, Peter Sollich, Daniele Tantari, Phase transitions in restricted Boltzmann machines with generic priors *PHYSICAL REVIEW E* 96, (2017), 042156.
- [4] Adriano Barra, et al., A novel protocol to evaluate the efficacy of chemotherapy induced human anticancer immunity in a microfluidic environment *NATURE SCIENTIFIC REPORTS* 7, (2017), 12737.
- [5] A. M. Cherubini, J.S. Lamb, M. Rasmussen, Y. Sato A random dynamical systems perspective on stochastic resonance. *NONLINEARITY* 30: 2835, 2017.
- [6] Napoli Gaetano , Turzi Stefano , The delamination of a growing elastic sheet with adhesion *MECCANICA* 52 : 3481 – 3487 , 2017 .
- [7] NAPOLI Gaetano , Goriely A. , A tale of two nested elastic rings *PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON. SERIES A* 473 : 2017034 – 1 , 2017 .
- [8] Pavlov M.V. , Vitolo R.F. , Remarks on the Lagrangian representation of bi-Hamiltonian equations *JOURNAL OF GEOMETRY AND PHYSICS* 113C : 239 – 249 , 2017 .
- [9] Tejero Prieto Carlos , Vitolo Raffaele , The geometry of real reducible polarizations in quantum mechanics *JOURNAL OF PHYSICS. A, MATHEMATICAL AND THEORETICAL* 10.1088 : 1 – 20 , 2017 .
- [10] G. Landolfi, M. Gianfreda, Non-autonomous Hamiltonian quantum systems, operator equations and representations of Bender-Dunne Weyl ordered basis under time-dependent canonical transformations. *Theoretical and Mathematical Physics*, 193: 1444-1463 2017

7 Probability and Statistics

- [1] Vezzoli Renata, Salvadori Gianfausto, and De Michele Carlo. A distributional multivariate approach for assessing performance of climate-hydrology models. *SCIENTIFIC REPORTS*, 7 doi = 10.1038/s41598-017-12343-1.
- [2] Moftakhari Hamed R., Salvadori Gianfausto, AghaKouchak Amir, Sanders Brett F., and Matthew Richard A. Compounding effects of sea level rise and fluvial flooding. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 114:9785–9790, 2017.
- [3] Pappadà R., Durante F., Salvadori G., and De Michele C. Clustering of concurrent flood risks via hazard scenarios. *SPATIAL STATISTICS*, doi = 10.1016/j.spasta.2017.12.002
- [4] R. Pappadà, DURANTE FABRIZIO, and SALVADORI Gianfausto. Quantification of the environmental structural risk with spoiling ties: is randomization worthwhile? *STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT*, 31(10):2483–2497, 2017.

- [5] Bernardi Mauro, Durante Fabrizio, Jaworski Piotr, Petrella Lea, and Salvadori Gianfausto. Conditional risk based on multivariate hazard scenarios. *STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT*, doi = 10.1007/s00477-017-1425-9.