

Publications CMAF 2013 in peer review journals

Published:

LOGIC

Artigos Revistas Internacionais:

J. Félix Costa, Incomputability at the Foundations of Physics (A Study in the Philosophy of Science), *Journal of Logic and Computation*, 23(6), 1225-1248, 2013. (IF: 0.647)

URL: <http://logcom.oxfordjournals.org/content/23/6/1225.abstract>

E. Beggs, J. Félix Costa, D. Poças, and J. V. Tucker, Oracles that measure thresholds: The Turing machine and the broken balance, *Journal of Logic and Computation*, 23(6), 1155-1181, 2013. (IF: 0.647)

URL: <http://logcom.oxfordjournals.org/content/23/6/1155.abstract>

J. Félix Costa and R. Leong, The ARNN model relativizes $P = NP$ and $P \neq NP$, *Theoretical Computer Science*, 499(1), 2-22, Elsevier, 2013. (IF: 0.489)

URL: <http://www.sciencedirect.com/science/article/pii/S0304397513003733>

H. Guerra and J. Félix Costa, Processes with Infinite Liveness Requirements, *The Journal of Logic and Algebraic Programming*, 82(3-4), 137-161, Elsevier, 2013. (IF: 0.529)

URL: <http://www.sciencedirect.com/science/article/pii/S1567832613000131>

A. Berarducci, M. Edmundo and M. Mamino, Discrete subgroups of locally definable groups. *Selecta Math. (N.S.)* 19 (2013), no. 3, 719-736. (IF: 0.717)

URL: http://download.springer.com/static/pdf/116/art%253A10.1007%252Fs00029-013-0123-9.pdf?auth66=1390390223_88ca272f441185a2e455075a753acd42&ext=.pdf

M. Edmundo, P. Eleftheriou and L. Prelli, The universal covering map in o-minimal expansions of groups. *Topology Appl.* 160 (2013), no. 13, 1530-1556. (IF: 0.562)

URL: <http://yadda.icm.edu.pl/yadda/element/bwmeta1.element.elsevier-7444aa5b-cbc3-a02-ab76-264b4f91daeb>

F. Ferreira and G. Ferreira, Interpretability in Robinson's Q, *The Bulletin of Symbolic Logic* 19, pp. 289-317 (2013). (IF: 0.913)

URL: <http://projecteuclid.org/euclid.bsl/1389017495>

F. Ferreira and G. Ferreira, Atomic polymorphism, *The Journal of Symbolic Logic* 78, pp. 260-274 (2013). (IF: 0.535)

URL: <http://projecteuclid.org/euclid.jsl/1358951113>

M. Mamino, On the computational complexity of a game of cops and robbers. *Theoret. Comput. Sci.* 477 (2013), 48–56. (IF: 0.489)

URL: <http://www.sciencedirect.com/science/article/pii/S0304397512010912>

R. Kahle and I. Oitavem, Applicative theories for the polynomial hierarchy of time and its levels, *Annals of Pure and Applied Logic*, 164/6, 2013, pp.663-675 (2013). doi: 10.1016/j.apal.2012.05.006. (IF: 0.504)
URL: <http://dx.doi.org/10.1016/j.apal.2012.05.006>

I. Oitavem, From determinism, non-determinism and alternation to recursion schemes for P, NP and Pspace, *Leibniz International Proceedings in Informatics (LIPIcs)*, 23, pp. 24-27 (2013).
URL: <http://drops.dagstuhl.de/opus/volltexte/2013/4186/pdf/6.pdf>

L. Prelli, De Rham theorem for Schwartz functions on Nash manifolds, *Israel J. Math.*, 197, p. 131-137 (2013). (IF: 0.646)
URL: <http://link.springer.com/article/10.1007%2Fs11856-012-0179-9>

L. Prelli and N. Honda, Multi-specialization and multi-asymptotic expansions, *Advances in Math.*, 232, pp. 432-498 (2013). (IF: 1.373)
URL: <http://www.sciencedirect.com/science/article/pii/S0001870812003532>

L. Prelli, Microlocalization of subanalytic sheaves, *Mémoires de la Société Mathématique de France*, 135 (2013).
URL: http://smf4.emath.fr/Publications/Memoires/2013/135/html/smf_mems_135.php

I. Kaplan, A. Onshuus and A. Usvyatsov, Additivity of the dp-rank, *Trans. Amer. Math. Soc.* 365, pp. 5783-5804 (2013). (IF: 1.019)
URL: <http://www.ams.org/journals/tran/2013-365-11/S0002-9947-2013-05782-0/>

D. Garcia, A. Onshuus and A. Usvyatsov, Generic stability, forking, and thorn-forking, *Trans. Amer. Math. Soc.* 365, pp. 1-22 (2013). (IF: 1.019)
URL: <http://www.ams.org/journals/tran/2013-365-01/S0002-9947-2012-05451-1/>

Book chapter:

E. Beggs, J. Félix Costa, D. Poças, and J. V. Tucker, On the power of threshold measurements as oracles In G. Mauri, A. Dennunzio, L. Manzoni, and A. E. Porreca (editors), *Unconventional Computation and Natural Computation 2013*, Lecture Notes in Computer Science 7956, 6-18, Springer-Verlag, 2013.
URL: <http://link.springer.com/book/10.1007%2F978-3-642-39074-6>

A. Fernandes, F. Ferreira and G. Ferreira, Techniques in weak analysis for conservation results. In: *New Studies in Weak Arithmetics*, P. Cégielski, Ch. Cornaros and C. Dimitracopoulos (eds.), CSLI Publications (Stanford) and Presses Universitaires (Paris 12) 2013, pp. 115-147.

URL:
<http://www.stanford.edu/group/cslipublications/cslipublications/site/9781575867236.shtml>

HYPERBOLIC SYSTEMS AND SINGULARITIES IN PDEs

Artigos Revistas Internacionais:

P. Amorim and J.P. Dias, A nonlinear model describing a short wave-long wave interaction in a viscoelastic medium, Quart. Appl. Math., 71(2013),417-132. (IF: 0.557)
URL: <http://www.ams.org/journals/qam/2013-71-03/S0033-569X-2012-01298-4/>

P. Amorim, J.P. Dias, M. Figueira and Ph. LeFloch, The linear stability of shock waves for the Nonlinear Schrodinger-Inviscid Burgers system, J. Dyn. Diff. Eq., 25 (2013), 49-69. (IF: 0.863)

URL: <http://link.springer.com/article/10.1007/s10884-012-9283-0>

P. Amorim and M. Figueira, Convergence of a numerical scheme for a coupled Schrodinger – KdV system, Rev. Mat. Complut., 26 (2013), 409-426. (IF: 0.377)
URL: [http://link.springer.com/article/10.1007/s13163-012-0097-8.](http://link.springer.com/article/10.1007/s13163-012-0097-8)

P. Amorim and M. Figueira, Convergence of a finite difference method for the KdV and modified KdV equations with L^2 data, Port. Math., 70 (2013), 23-50. (IF: 0.422)

URL: [http://www.ems-ph.org/journals/show_abstract.php?issn=0032-5155&vol=70&iss=1&rank=3.](http://www.ems-ph.org/journals/show_abstract.php?issn=0032-5155&vol=70&iss=1&rank=3)

J. Angulo Pava, C. Banquet, J. Drumond Silva and F. Oliveira, The regularized Boussinesq equation: instability of periodic traveling waves, J. Diff. Equations, 254 (2013), 3994-4023. (IF: 1.480)

URL: <http://www.sciencedirect.com/science/article/pii/S0022039613000521>

S. Antontsev and P. Amorim, Young measure solutions for wave equation with $p(x,t)$ -Laplacian: Existence and blow up, Nonlinear Analysis: Theory, Methods and Applications, 92(2013), 153-167. (IF: 1.640)

URL: <http://www.sciencedirect.com/science/article/pii/S0362546X13002265>

S. Antontsev and J. Ferreira, Existence, uniqueness and blow up for hyperbolic equations with nonstandard growth conditions, Nonlinear Analysis: Theory, Methods & Applications, 93(2013), 62-77. (IF: 1.640)

URL: <http://www.sciencedirect.com/science/article/pii/S0362546X13002356>

A. Araújo and O. Neto, Limits of tangents of quasi-ordinary hypersurfaces, Proc. Am. Math. Soc., 141(2013), 1-11. (IF: 0.609)

URL: <http://www.ams.org/journals/proc/2013-141-01/S0002-9939-2012-11126-8/>

A. J. Corcho, F. Oliveira and J.D. Silva, Local and global well posedness for the critical Schrödinger-Debye system, Proc. Amer. Math. Soc., 141(2013), 3485-3499. (IF: 0.609)

URL: <http://www.ams.org/journals/proc/2013-141-10/S0002-9939-2013-11612-6/>

T. Monteiro Fernandes, Microsupport of tempered solutions of shd-modules associated to smooth morphisms, Houston Math. Journal, 39 (2013)797-821. (IF: 0.357)

URL: <http://math.uh.edu/~hjm/Vol39-3.html>

T. Monteiro Fernandes and C.Sabbah, On the Rham Complex of Mixed Twistor D-Modules, Int. Math. Res. Notices, 21 (2013) 4961-4984. (IF: 1.116)
URL: <http://imrn.oxfordjournals.org/content/2013/21/4961>

STOCHASTIC ANALYSIS, MATHEMATICAL PHYSICS AND APPLICATIONS

Artigos Revistas Internacionais:

D. L. Finkelshtein, Y. G. Kondratiev, M. J. Oliveira, Markov Evolutions and Hierarchical Equations in the Continuum. II: Multicomponent Systems, Rep. Math. Phys. 71 (1)(2013), 123 - 148. (IF: 0.756)
URL: <http://www.sciencedirect.com/science/article/pii/S0034487713600245>

E. Floriani and R. Vilela Mendes, A stochastic approach to the solution of magneto hydrodynamics equations, Journal of Computational Physics 242 (2013) 777-789. (IF: 2.138)
URL: <http://dx.doi.org/10.1016/j.jcp.2013.02.039>

C. Aguirre and R. Vilela Mendes, Signal recognition and adapted filtering by non-commutative tomography, IET Signal Processing, pp- 1-9. DOI:10.1049/iet-spr.2012.0227. (IF: 0.714)
URL: <http://dx.doi.org/10.1049/iet-spr.2012.0227>

Sara Encarnação, Marcos Gaudiano, Francisco C. Santos, José A. Tenedório, Jorge M. Pacheco, Urban Dynamics, Fractals and Generalized Entropy, Entropy 15 (2013) 2679-2697. (IF: 1.347)
URL: <http://dx.doi.org/10.3390/e15072679>

João Moreira, Jorge M. Pacheco, Francisco C. Santos, Evolution of collective action in adaptive social structures, Nature Scientific Reports 3 (2013) 1521. (IF: 2.927)
URL: <http://dx.doi.org/10.1038/srep01521>

Jeromos Vukov, Flávio P. Pinheiro, Francisco C. Santos, Jorge M. Pacheco. Reward from punishment does not emerge at all costs, PLoS-Comp. Biol. 9 (2013)e1002868. (4.867)
URL: <http://dx.doi.org/10.1371/journal.pcbi.1002868>

João Moreira, Jeromos Vukov, Cláudia Sousa, Francisco C Santos, André F. Almeida, Marta D Santos, Jorge M. Pacheco, Individual memory and the emergence of cooperation, Animal Behaviour 85 (2013) 233. (IF: 3.068)
URL: <http://dx.doi.org/10.1016/j.anbehav.2012.10.030>

Arne Traulsen, Tom Lenaerts, Jorge M. Pacheco, and David Dingli, On the dynamics of neutral mutations in a mathematical model for a homogeneous stem cell population, Journal of the Royal Society Interface 10 (2013) 20120810. (IF: 4.907)
URL: <http://rsif.royalsocietypublishing.org/content/10/79/20120810.full.pdf+html>

Book chapter:

Behavioral dynamics under climate change dilemmas, Francisco C. Santos and Jorge M. Pacheco, book chapter in New Challenges to Philosophy of Science, The Philosophy of Science in a European Perspective Series (Volume 4), edited by Hanne Andersen, Dennis Dieks, Wenceslao J. Gonzalez, Marcel Weber, Gregory Wheeler, pp. 113-124, Springer. 2013. ISBN 978-94-007-5845-2.

URL: http://link.springer.com/chapter/10.1007/978-94-007-5845-2_10

J. Bornales, M. J. Oliveira, L. Streit, Self-repelling fractional Brownian motion - a generalized Edwards model for chain polymers, In L. Accardi, W. Freudenberg, M. Ohya (Eds.), Quantum Bio-Informatics V. Proceedings of Quantum Bio-Informatics 2011. Quantum Probability and White Noise Analysis vol. 30, 398-401. World Scientific Publ. Co., Singapore, New Jersey, London, 2013.

URL: http://www.worldscientific.com/doi/abs/10.1142/9789814460026_0033

MATHEMATICAL AND NUMERICAL METHODS IN MECHANICS

Artigos Revistas Internacionais:

L. Arruda, N.V. Chemetov, Embedding theorem for bounded deformations in domains with cusps, Mathematical Methods in the Applied Sciences. (IF: 0.778)

URL: <http://onlinelibrary.wiley.com/doi/10.1002/mma.3014/abstract>

N.V. Chemetov, F. Cipriano, Boundary layer problem: Navier-Stokes equations and Euler equations, Nonlinear Analysis: Real World Applications, 14, N° 6 (2013), 2091–2104. (IF: 2.138)

URL: <http://www.sciencedirect.com/science/article/pii/S1468121813000266>

N.V. Chemetov, F. Cipriano, The Inviscid Limit for the Navier–Stokes Equations with Slip Condition on Permeable Walls, Journal of Nonlinear Science, 23, N° 5 (2013), 731–750. (IF: 1.566)

URL: <http://link.springer.com/article/10.1007%2Fs00332-013-9166-5#page-1>

N.V. Chemetov, W. Neves, The generalized Buckley-Leverett System: Solvability, Archive for Rational Mechanics and Analysis, 208, N° 1 (2013), 1-24. (IF: 2.292)

URL: <http://link.springer.com/article/10.1007%2Fs00205-012-0591-7#page-1>

M. Baía, A. C. Barroso, M. Chermisi and J. Matias, Coupled second order singular perturbations for phase transitions, Nonlinearity, 26 (2013), 1-41 (IF: 1.602)

URL: <http://iopscience.iop.org/0951-7715/26/5/1271>

A. C. Barroso, G. Croce and A. M. Ribeiro, Sufficient conditions for existence of solutions to vectorial differential inclusions and applications, Houston Journal of Mathematics, 39 (2013), 929-967. (IF: 0.357)

URL: <http://www.cma.fct.unl.pt/en/node/74>

A. C. Barroso and J. P. Silva, Mutual inductance between piecewise-linear loops, American Journal of Physics, 81 (2013), 829-835. (IF: 0.782)

URL: <http://dx.doi.org/10.1119/1.4818278>

M. Castrillón López, P.L. García, C. Rodrigo, Euler-Poincaré reduction in principal bundles by a subgroup of the structure group, *J. Geom. Phys.* 74 (2013), pp 352-369. (IF: 1.055)

URL: <http://www.sciencedirect.com/science/article/pii/S0393044013001551>

A. Quintino (with F. E. Burstall, J. F. Dorfmeister, K. Leschke), Darboux transforms and simple factor dressing of constant mean curvature surfaces, *Manuscripta Math.* 140 (2013), no. 1-2, 213–236. DOI: 10.1007/s00229-012-0537-2. (IF: 0.392)

URL: <http://link.springer.com/article/10.1007/s00229-012-0537-2>

Published (online) - Maria João Ferreira and Renato Tribuzy, Parallel mean curvature surfaces in symmetric spaces", *Arkiv för Matematik*, online, DOI: 10.1007/s11512-012-0170-z, 2012, (IF: 0.674)

URL: <http://link.springer.com/content/pdf/10.1007%2Fs11512-012-0170-z.pdf>

Published (online) – S. Santos (with F. E. Burstall), Formal conserved quantities for isothermic surfaces, *Geometriae Dedicata* (online, September 2013). DOI: 10.1007/s10711-013-9915-5. (IF: 0.465)

URL: <http://link.springer.com/article/10.1007/s10711-013-9915-5>

DIFFERENTIAL AND FUNCTIONAL EQUATIONS

Artigos Revistas Internacionais:

A. Margheri, C. Rebelo, F. Zanolin, Complex dynamics in pendulum-type equations with variable length, *J Dyn Diff Equat*, 25, (2013) 627-652. DOI: 10.1007/s10884-013-9295-4. (IF: 0.863)

URL: <http://link.springer.com/article/10.1007/s10884-013-9295-4>

T. Faria, Asymptotic behaviour for a class of delayed cooperative models with patch structure, *Disc. Cont. Dyn. Systems Series B* 18 (2013), 1567-1579. DOI: 10.3934/dcdsb.2013.18.1567, WOS: 000316784800005. (IF: 0.880)

URL: <https://www.aims.org/journals/displayArticlesnew.jsp?paperID=8404>

R. Enguiça, A. Gavioli, L. Sanchez, A class of singular first order differential equations with applications in reaction-diffusion, *Discrete and Continuous Dynamical Systems – Series A*, 33 (2013), 173. (IF: 1.005)

URL: <http://www.aims.org/journals/displayArticlesnew.jsp?paperID=7607>

J. Buescu, A. Paixão, Complex Variable Positive Definite Functions, *Complex Anal. Oper. Theory*, DOI 10.1007/s11785-013-0319-1. (IF: 0.404)

URL: <http://link.springer.com/article/10.1007/s11785-013-0319-1>

J. Buescu, A. Paixão, Real and complex variable positive definite Functions, *Sao Paulo Journal of Mathematical Sciences* 6, 2 (2012), 1-15 (published in 2013)

URL: <http://www.ime.usp.br/~spjm/articlepdf/464.pdf>

Artigos Revistas Nacionais:

P. Duarte, A. Margheri, Sobrevoando Cumes e Vales, Gazeta de Matemática, n. 169, 36-41, 2013.

URL: <http://gazeta.spm.pt/fichaartigo?id=401>

Proceedings:

J. Buescu, There and back again: the Humble-Behrends triangle mistry. Recreational Mathematics Colloquium 2013 Proceedings, 3-13. Ludus.

URL: <http://www.amazon.com/Proceedings-Recreational-Mathematics-Colloquium-III/dp/9899734640>

Book:

Fernando Pestana da Costa, João Teixeira Pinto, Jorge Buescu (editores), Matemática do Planeta Terra, IST Press, 2013

URL: <http://istpress.tecnico.ulisboa.pt/node/380>

MATHEMATICAL BIOLOGY

Artigos Revistas Internacionais:

Aguiar, M., Kooi, W. B., Rocha, F., Ghaffari, P., Stollenwerk, N. (2013), How much complexity is needed to describe the fluctuations observed in dengue hemorrhagic fever incidence data?, Ecological Complexity, 16, 31-40. (IF: 2.340)

URL: <http://www.journals.elsevier.com/ecological-complexity/>

Rocha, F., Aguiar, M., Souza, M., Stollenwerk, N. (2013), Time-scale separation and center manifold analysis describing vector-borne disease dynamics, Int. Journal. Computer Math. 90, 2105-2125. DOI: 10.1080/00207160.2013.783208. (IF: 0.542)

URL: <http://www.tandfonline.com/toc/gcom20/current>

Mateus, L., Stollenwerk, N., Zambrini, J.C. (2013) Stochastic Models in Population Biology: From Dynamic Noise to Bayesian Description and Model Comparison for Given Data Sets, Int. Journal. Computer Math. 90, 2161-2173. DOI: 10.1080/00207160.2013.792924. (IF: 0.542)

URL: <http://www.tandfonline.com/toc/gcom20/current>

Kooi, W. B., Aguiar, M., Stollenwerk, N. (2013), Bifurcation analysis of a family of multi-strain epidemiology models, Journal of Computational and Applied Mathematics, 252, 148-158. (IF: 0.989)

URL: <http://www.journals.elsevier.com/journal-of-computational-and-applied-mathematics/>

Proceedings:

Rocha, F., Skwara, U., Aguiar, M., Stollenwerk, N. (2013). Understanding dengue fever dynamics: study of seasonality in the models. Proceedings of the 13th International Conference on Mathematical Methods in Science and Engineering - CMMSE 2013, pp 1197-1209. ISBN: 978-84-616-2723-3, edited by Jesus Vigo et al., Almeria.

URL: <http://gsii.usal.es/cmmse2013/>

Nico Stollenwerk, Maira Aguiar, Filipe Rocha, Urszula Skwara. (2013). Testing particle filters for dengue fever studies via simple reinfection models. Proceedings of the 13th International Conference on Mathematical Methods in Science and Engineering - CMMSE 2013, pp 1262-1277. ISBN: 978-84-616-2723-3, edited by Jesus Vigo et al., Almeria.

URL: <http://gsii.usal.es/cmmse2013/>

Nico Stollenwerk, Davide Masoero, Urszula Skwara, Filipe Rocha, Peyman Ghaffari, Maira Aguiar. (2013). Semiclassical approximations of stochastic epidemiological processes towards parameter estimation. Proceedings of the 13th International Conference on Mathematical Methods in Science and Engineering - CMMSE 2013, pp 1278-1289. ISBN: 978-84-616-2723-3, edited by Jesus Vigo et al., Almeria.

URL: <http://gsii.usal.es/cmmse2013/>

Urszula Skwara, Filipe Rocha, Maira Aguiar, Nico Stollenwerk. (2013). Superdiffusion in epidemiological models. Proceedings of the 13th International Conference on Mathematical Methods in Science and Engineering - CMMSE 2013, pp 1250-1261. ISBN: 978-84-616-2723-3, edited by Jesus Vigo et al., Almeria.

URL: <http://gsii.usal.es/cmmse2013/>

Book chapters:

Aguiar, M., Peyman Ghaffari, Luis Mateus, Filipe Rocha, Urszula Skwara, Alexandra Symeonides and Nico Stollenwerk. (2013). Biomatemática: Novos desafios para a matemática do Planeta Terra.

Parte I, pp. 397-426; Parte II, pp. 427-451, Mathematics of Planet Earth, IST Press, Edited by Jorge Buescu et. al.

STATISTICS

Artigos Revistas Internacionais:

Rossi, R., Amato, M., Bitella, G., Gomes, João J., Bochicchio, R., & Baronti, S., Electrical resistivity tomography to detect the effects of tillage in a soil with a variable rock fragments content, European Journal of Soil Science, 64 (2), 239-248. DOI: 10.1111/ejss.12024. (IF: 2.651)

URL: <http://onlinelibrary.wiley.com/doi/10.1111/ejss.12024/abstract>

Gonçalves, A.M.; Costa, M., Predicting seasonal and hydro-meteorological impact in environmental variables modelling via Kalman filtering, Stochastic Environmental Research and Risk Assessment, 27 (5), 239-248. DOI: 10.1007/s00477-012-0640-7. (IF: 1.961)

URL: <http://link.springer.com/article/10.1007%2Fs00477-012-0640-7>

Dias, G. P.; Costa, M., Significant socio-economic factors for local e-government development in Portugal, Electronic Government, an International Journal, 10 (3/4), 284-284. DOI: 10.1504/EG.2013.058785.

URL: <http://www.inderscience.com/offer.php?id=58785>

Mouriño, H., Barão, M. I., Maximum Likelihood Estimation of the VAR(1) Model Parameters with Missing Observations, Mathematical Problems in Engineering, vol. 2013 (2013), Article ID 848120, 13 pages. DOI: <http://dx.doi.org/10.1155/2013/848120>. (IF: 1.383)

URL: <http://www.hindawi.com/journals/mpe/2013/848120/>

Carolina, E., Barão, M. I., Robust Methods in Acceptance Sampling Plans, *Revstat*, 11, 67-82. (IF: 0.273)

URL: <http://www.ine.pt/revstat/pdf/rs130104.pdf>

Published (online) - Gomes, João J., Barão, Isabel, & Oliveira, Tiago, Is It Always Necessary To Take Sample Selection Into Account? Communications in Statistics - Simulation and Computation. (Online 03 Oct 2013) DOI: 10.1080/03610918.2012.762384

URL:

<http://www.tandfonline.com/doi/abs/10.1080/03610918.2012.762384#.UuZzxhDFLIU>

Proceedings:

Gonçalves, A. M; Costa, M.; Teixeira, L., Assessing the performance of change-point detection based on the SIC procedure for non Gaussian and correlated data - A simulation study, ICNAAM2013, Rhodes, Greece. DOI: <http://dx.doi.org/10.1063/1.4825897>.

URL: <http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.4825897>

Oliveira, M., Gonçalves, A. M., Costa, M., Metodologia estatística para a classificação das escolas secundárias em Portugal, Atas do XXIV Seminário de Investigação em Educação Matemática. 213-216.

URL: http://www.apm.pt/files/_S2-P2-Oliveira_529d283c9d143.pdf

Gonçalves, A. M; Costa, M.; Teixeira, L., Change-point analysis in environmental time series, Proceedings of the IWSM2013-28th International Workshop on Statistical Modelling, 577-580, Palermo.

URL: http://www.apm.pt/files/_S2-P2-Oliveira_529d283c9d143.pdf

Ramos, M. R.; Cordeiro, C., Trend Tests in Time Series with Missing Values: a Case Study with, Conference Proceedings 1558, Issue 1. 1909, ICNAAM2013, Rhodes, Greece, DOI: <http://dx.doi.org/10.1063/1.4825905>

URL: <http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.4825905>

Costa, Maria J.; Pires, Mafalda; Neves, Cassiano; Tavares, Delfin; Quintas, Alexandra M.; Ferreira, Ana I.; Espírito Santo, M. J.; Castro, Alexandra; Cabral, M. Salomé; Gomes, João J., Supracondylar fracture in children between 4 and 12 years old. Rehabilitation in occupational therapy, yes or no? ICNAAM2013, Rhodes, Greece. AIP Conf. Proc. 1558, 1905 (2013); DOI: <http://dx.doi.org/10.1063/1.4825904>

URL: <http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.4825904>

NONLINEAR ANALYSIS AND FREE BOUNDARY PROBLEMS

Artigos Revistas Internacionais:

J. F. Rodrigues e H. Tavares, Increasing powers in a degenerate parabolic logistic equation, Chinese Annals of Mathematics - ser. B 34, no.2 (special issue in honor of the scientific heritage of Jacques-Louis Lions) (2013), 277–294. (IF: 0.504)
URL: <http://link.springer.com/article/10.1007/s11401-013-0762-3>

H. Tavares e T. Weth, Existence and symmetry results for competing variational systems, NoDEA - Nonlinear Diff. Equations and Appl. 20, no.3 (2013), 715-740 (IF: 0.671)

URL: <http://link.springer.com/article/10.1007/s00030-012-0176-z>

Antontsev, Stanislav; Chipot, Michel; Shmarev, Sergey, Uniqueness and comparison theorems for solutions of doubly nonlinear parabolic equations with nonstandard growth conditions. Commun. Pure Appl. Anal. 12 (2013), no. 4, 1527–1546. (IF: 0.589)

URL: <https://www.aimsciences.org/journals/displayArticlesnew.jsp?paperID=7919>

Antontsev S., Almeida R. and Duque J., Convergence of the finite element method for the porous media equation with variable exponent, SIAM J. Numer. Anal., 51(6), 2013, 3483-3504. (IF: 1.484)

URL: <http://pubs.siam.org/doi/abs/10.1137/120897006>

H.B. de Oliveira, Existence of weak solutions for the generalized Navier-Stokes equations with damping. NoDEA Nonlinear Differential Equations Appl. 20 (2013) no. 3, 797-824. (IF: 0.671)

URL: <http://link.springer.com/article/10.1007%2Fs00030-012-0180-3>

Artigos Revistas Nacionais:

H.B. de Oliveira, Existence results of weak solutions for viscous fluids (Portuguese). Bol. Soc. Port. Mat. 2013, Special Issue, 23-26.

URL:

<http://www.ams.org/mathscinet/search/publdoc.html?pg1=INDI&s1=747453&vfref=h tml&r=2&mx-pid=3098757>

Proceedings

Antontsev S.N., Shmarev S., On a class of doubly degenerate parabolic equations with variable nonlinearity, Proceedings of the 5th International Conference on Approximation Methods and Numerical Modelling in Environment and Natural Resources, MAMERN 13, April 22-25, 2013, Granada, Spain, pp. 195-202.

Antontsev S.N., José C.M. Duque and Rui M. P. Almeida, Applications of the moving mesh method to the porous medium equation with variable exponent. Proceedings of the 5th International Conference on Approximation Methods and Numerical Modelling in Environment and Natural Resources, MAMERN 13, April 22-25, 2013, Granada, Spain, pp. 433-442. ISBN:978-84-338-550-3.

Accepted: (ALL GROUPS)

E. Beggs, J. F. Costa, and J. V. Tucker, A natural computation model of positive relativisation, International Journal of Unconventional Computing, 10(1-2): 111-141, Old City Publishing, Inc., 2014.

URL: <http://www.oldcitypublishing.com/IJUC/IJUCcontents/IJUCv10n1-2contents.html>

F. Ferreira, A new computation of the Sigma-ordinal of KPomega, 19 pages. Accepted for publication in The Journal of Symbolic Logic (September 2013).

F. Ferreira, Spector's proof of the consistency of analysis, 22 pages. Accepted for publication in a volume dedicated to Gerhard Gentzen (December 2013). Editors: R. Kahle and M. Rathjen.

R. Bianconi, G. Ferreira and E. Silva, Bounded theories for polyspace computability, 21 pages. Accepted for publication in Portugaliae Mathematica (September 2013).

I. Kaplan and A. Usvyatsov, Strict independence in dependent theories, J. Math. Logic, accepted (Nov. 2013)

S. Antontsev, J.P. Dias and M. Figueira, Complex Ginzburg-Landau equation with absorption: existence, uniqueness and localization properties, J. Math. Fluid Mechanics, DOI: 10.1007/s00021-013-0147-0, Accepted July 2013.

J.P.Dias and M.Figueira, On the blowup of solutions of a Schrodinger equation with an inhomogeneous damping coefficient, Comm. Contemp. Math., DOI: 10.1142/S0219199713500363. Accepted July 2013.

T. Monteiro Fernandes, A.R. Martins and D. Raimundo, Extensions of functors for algebras of formal deformation, Glasgow Math. Journal, doi: 10.1017/S0017089513000116. Accepted January 2013.

L. Saraiva, Etienne Bézout in Portugal: The reform of the Portuguese University and beyond (1772-1838), Historia Mathematica, Manuscript number HM 13-43. Accepted December 2013.

E. A. Carlen, M. C. Carvalho and M. Loss. Spectral gap for the Kac model with Hard-sphere collisions, J. of Functional Analysis 266 (2014) 1787-1832. Accepted August 2013

URL: http://ac.els-cdn.com/S0022123613003364/1-s2.0-S0022123613003364-main.pdf?_tid=cc8029cc-8507-11e3-b7e8-0000aab0f27&acdnat=1390575609_2b1a0a3e3c3b8b7f5b4c38a1ca908cd3

Francis Burstall, Áurea Quintino, Dressing transformations of constrained Willmore surfaces, Communications of Analysis and Geometry (accepted Nov. 2013) arXiv:1307.2077 [math. DG].

URL: <http://arxiv.org/abs/1307.2077>

M. G. M. Gomes, M. Lipsitch, A. R. Wargo, G. Kurath, C. Rebelo, G. F. Medley, A. Coutinho, A missing dimension in measures of vaccination impacts, to appear in Plos Pathogens (accepted on the 11th November 2013).

URL: http://ptmat.fc.ul.pt/~carlota/cmaf_2013/PPATHOGENSopinion.pdf

A. Margheri, C. Rebelo, and P. Torres, On the use of Morse index and rotation numbers for multiplicity results of resonant BVPs, doi: 10.1016/j.jmaa.2013.12.005, to appear in JMAA (accepted on the 3 december 2013)

URL: <http://www.sciencedirect.com/science/article/pii/S0022247X13010846>

T. Faria and Y. Muroya, Global Attractivity and Extinction for Lotka-Volterra systems with infinite delay and feedback controls (to appear in Proc. Roy. Soc. Edinburgh Sect. A, accepted January 09, 2014).

URL: <http://arxiv.org/pdf/1307.7039v1.pdf>

G. Del Magno, J. L. Dias, P. Duarte, J. P. Gaivão, D. Pinheiro, SRB measures for hyperbolic polygonal billiards, accepted (March 2013 - Communications in Mathematical Physics, IF: 1.971)

URL: <http://arxiv.org/abs/1302.1462>

P. Duarte, S. Klein, Positive Lyapunov exponents for higher dimensional quasiperiodic cocycles, accepted (January 2014 - Communications in Mathematical Physics, IF:1.971)

URL: <http://arxiv.org/abs/1211.4002>

P. Duarte, S. Klein, "Continuity of the Lyapunov exponents for quasiperiodic cocycles, accepted (October 2013 - Communications in Mathematical Physics, IF:1.971)

URL: <http://arxiv.org/abs/1305.7504>

Denis Bonheure, José Ángel Cid, Colette De Coster and Luís Sanchez, Heteroclinics for some non autonomous third order differential equations, Top. Meth. Nonl. Anal. Accepted 25 january 2013.

Aguiar, M., Paul, R., Sakuntabhai, A., Stollenwerk, N. (2013) Are we modeling the correct data set? Minimizing false predictions for dengue fever in Thailand, accepted for publication in "Epidemiology and Infection", 10.12.2013. (IF: 2.867)

URL: <http://journals.cambridge.org/action/displayJournal?jid=hyg>

Kooi, W.B., Aguiar, M., Stollenwerk, N. (2013)Analysis of an asymmetric two-strain dengue model, accepted for publication in "Mathematical Biosciences", 20.12.2013. (IF: 1.454)

URL: <http://www.journals.elsevier.com/mathematical-biosciences/>

S.N. Antontsev and H.B. DE OLIVEIRA, Analysis of the Existence for the Steady Navier-Stokes Equation with Anisotropic Diffusion. Aceite (Novembro de 2013) em Advances in Differential Equations.

URL: http://ptmat.fc.ul.pt/arquivo/docs/preprints/pdf/2013/AO_17_October_2013.pdf

E.A. Coayla-Terán, J. Ferreira, P.M.D. de Magalhães and H.B. DE OLIVEIRA, On a stochastic coupled system of reaction-diffusion of nonlocal type. Aceite (Outubro de 2013) em Springer Proceedins in Mathematics: Particle Systems and PDEs.