

PUBLICATIONS 2009

(A) Papers in international journals with referees

1. **T. ALPUIM** AND **ABDEL EL-SHAARAWI**, A. *Modeling monthly temperature data in Lisbon and Prague*, *Environmetrics*, 20: 835-852 (2009). (IF 0,719)
2. **PAULO AMORIM**, **PHILIPPE G. LEFLOCH** AND **C. BERNARDI**, *Computing Gowdy spacetimes via spectral evolution in future and past directions*, *Class. Quant. Grav.* 26:025007, (2009). (IF 3.035)
3. **S.N. ANTONTSEV** AND **L. CONSIGLIERI**, *Variable exponents on elliptic problems with nonstandard boundary conditions*, *Nonlinear Anal., Theory, Methods, Applications*, 71 (2009), 891-902. (IF:1.295)
4. **S.N. ANTONTSEV**, **B. AMAZIAN**, **L. PANKRATOV**, **A. PIATNISKI**, *Homogenization of p -Laplacian in perforated domain*, *Ann.I.H. Poincare-AN* 26 (2009), pp. 2457-2479. (IF:1.234)
5. **S.N. ANTONTSEV** AND **S.I. SHMAREV**, *Existence and uniqueness theorems for parabolic equations with anisotropic non-standard growth conditions*, *Publicacions Matematiques de l'Universitat Autònoma de Barcelona*, 53(2), (2009), 355-399.
6. **S.N. ANTONTSEV** AND **S.I. SHMAREV**, *Localization of solutions of anisotropic parabolic equations*, *Nonlinear Anal. Theory, Methods, Applications*, 71(2009), e725-e737. (IF:1.295)
7. **S.N. ANTONTSEV**, **ALKHUTOV**, **A.YU.** AND **V.V. ZHIKOV**, *Parabolic equations with variable order of nonlinearity*, *The collection of works of Institute of mathematics NAS of Ukraine*, Vol. 6, Nu. 1, (2009), 23--50. (Збірник праць Інституту математики НАН України. 2009. Т. 6. N. 1).
8. **S.N. ANTONTSEV** AND **J.I. DÍAZ**, *On gradient estimates and other qualitative properties of solutions of nonlinear non autonomous parabolic systems*, *RACSAM, Rev. R. Acad. Cien. Serie A. Mat*, vol.103 (1), (2009), pp.201-214.
9. **SÉBASTIEN BALLESTEROS**, **ELISABETA VERGU** AND **BERNARD CAZELLES**, *Influenza A gradual and epochal evolution: insights from simple models*, *PLoS ONE* 4, e7426 (2009). (journal impact factor since Jan. 2010 in preparation, Scopus trend line (equivalent to jif): 3.33)
10. **J. BUESCU**, **D. GRAÇA**, **M. CAMPAGNOLO**, *Computational bounds on polynomial differential equations*. *Appl. Math. Comp.* 215 (2009), 1375—1385.
11. **J. BUESCU**, **D. GRAÇA**, **N. ZHONG**, *Computability, noncomputability and undecidability of maximal intervals of IVPs*. *Trans. Amer. Math. Soc.* 361 (2009), no. 6, 2913–2927.
12. **J. BUESCU**, **P. TEIXEIRA**, *Foam as a geometer*, *Europh. News*, 40 (2009), 3, 21—25. (2) 52 (2009), 569-581.
13. **O. NETO** AND **J. CABRAL**, *Microlocal versal deformations of the plane curves $y^k = x^n$* , *C. R. Acad. Sci. Paris, Ser. I* 347 (2009), pp 1409–1414.
14. **E. CARLEN**, **M. C. CARVALHO**, **R. ESPOSITO**, **J. LEBOWITZ** AND **R. MARRA**, *Displacement convexity and minimal fronts at phase boundaries*, *Arch. for Ratio. Mech.* (published on line 2008), 194 (2009) 775-822 (IF 2.371)

15. E. CARLEN, **M. C. CARVALHO** AND X. G. LU, *On strong convergence to equilibrium for the Boltzmann equation with soft potentials*, J. Stat. Phys. 135 (2009). (IF 1.621)
16. E. CARLEN, **M. C. CARVALHO**, R. ESPOSITO, J. LEBOWITZ AND R. MARRA, *Droplet minimizers for the Gates-Lebowitz-Penrose free energy functional*, Nonlinearity 22 (2009), no. 12, 2919—2952. (IF 1.359)
17. E. CARLEN, J. A. CARRILLO AND **M. C. CARVALHO**, *Strong Convergence towards homogeneous cooling states for dissipative Maxwell models*, Ann. Inst. H. Poincaré, Nonlinear Analysis, 26 (2009). (IF 0.878)
18. E. BEGGS, **F. COSTA**, B. LOFF AND J. TUCKER: *Computational complexity with experiments as oracles. II. Upper bounds*, P. Acad. Sci. Proceedings of the Royal Society, Series A (Mathematical, Physical and Engineering Sciences), 465 (2105): 1453-1465. (IF 1.705)
19. H. GUERRA AND **F. COSTA**, *Processes with local and global liveness requirements*, The Journal of Logic and Algebraic Programming, 78(3):117-137. (IF 1.018)
20. B. LOFF AND **F. COSTA**, *Five views of hypercomputation*, International Journal of Unconventional Computing, 5(3-4): 193-207, Special Issue on Hypercomputation, Old City Publishing, Inc. (IF 0.610)
21. **J. COSTA**, B. LOFF AND J. MYCKA, *A foundation for real recursive function theory*, Annals of Pure and Applied Logic, 160(3): 255-288. (IF 0.551)
22. E. BEGGS, **F. COSTA** AND J. TUCKER: *Physical experiments as oracles*, Bulletin of the European Association for Theoretical Computer Science, 97:137-151.
23. **F. DALBONO**, *Branches of index-preserving solutions to systems of second order ODEs*, NoDEA Nonlinear Differential Equations Appl. 16 (2009), 569-595.
24. **PANTELIS E. ELEFThERIOU** AND **M. EDMUNDO**, *Definable group extensions in semi-bounded o-minimal structures*, Mathematical Logic Quarterly, Volume 55 (2009), 598-604. (IF 0.459)
25. **M. EDMUNDO** AND O. WOERHEIDE, *The Lefschetz coincidence theorem in o-minimal expansions of fields*, Topology Appl. 156(15):2470-2484. (IF 0.362)
26. **M. EDMUNDO** AND G. TERZO, *On freely generated E-subrings*, J. Pure Appl. Algebra 213(5):690-697. (IF 0.540)
27. **PANTELIS E. ELEFThERIOU**, *Compact domination for groups definable in linear o-minimal structures*, Archive for Mathematical Logic, Volume 48, Issue 7 (2009), 607-623. (IF 0.552)
28. **T. FARIA** AND J. OLIVEIRA, *Boundedness and global exponential stability for delayed differential equations with applications*, Appl. Math. Comput., 214 (2009), 487--496.2.
29. **T. FARIA** AND J. OLIVEIRA, *Sharp Conditions for Global Stability of Lotka-Volterra Systems with Distributed Delays*, J. Differential Equations, 246 (2009), 4391—4404
30. **F. FERREIRA** AND **GILDA FERREIRA**, *Commuting conversions vs. the standard conversions of the 'good' connectives*, Studia Logica 92, pp. 63-84 (2009).
31. **F. FERREIRA**, *Injecting uniformities into Peano arithmetic*, Annals of Pure and Applied Logic 157, pp. 122-129 (2009). (IF 0.551)
32. **PAULO AMORIM** AND **M. FIGUEIRA**, *Convergence of semi-discrete approximations of Benney equations*, C. R. Acad. Sci. Paris, Ser. I. 347 (2009) 1135-1140. (IF 0.392)
33. **J. GOMES** AND S. NOBRE, *R "casa" com Regressão Logística*. Boletim da Sociedade Portuguesa de Estatística, nº de Outono 2009, pp. 67-75, SPE.

34. **F. HILKER**, M. LANGLAIS AND H. MALCHOW, *The Allee effect and infectious diseases: extinction, multistability, and the (dis-)appearance of oscillations*, *American Naturalist* 173, (2009), 72–88. (IF 4.464)
35. **F. HILKER**, *Population collapse to extinction: the catastrophic combination of parasitism and Allee effect*, *Journal of Biological Dynamics* 4, 86–101. (published online 17.6.2009, journal impact factor still in preparation, expected above 1)
36. **R. SÁ-LEÃO**, S. NUNES, A. BRITO-AVÔ, N. FRAZÃO, A. SIMÕES, M.I. CRISÓSTOMO, A.C.S. PAULO, J. SALDANHA, I. SANTOS-SANCHES, AND H. DE LENCASTRE, *Changes in pneumococcal serotypes and antibiotypes carried by vaccinated and unvaccinated day-care center attendees in Portugal, a country with widespread use of the seven-valent pneumococcal conjugate vaccine*, *Clinical Microbiology and Infection* 15, (2009), 1002–1007. (IF 3.554)
37. F. RODRIGUES, S. NUNES, **R. SÁ-LEÃO**, G. GONÇALVES, L. LEMOS, AND H. DE LENCASTRE, *Streptococcus pneumoniae nasopharyngeal carriage in children attending day care centers in the central region of Portugal, in the era of 7-valent pneumococcal conjugate vaccine*, *Microb. Drug Resist.* 15:269-277 (2009), *Microbial Drug Resistance* (IF: 1.800)
38. NUNES, S., C. VALENTE, **R. SÁ-LEÃO***, AND H. DE LENCASTRE, *Secular trends and molecular epidemiology of the recently described serotype 6C of Streptococcus pneumoniae*, *J. Clin. Microbiol.* 47:472-474 (2009).
39. R. DZONOU, **M. D. P. MONTEIRO MARQUES**, L. PAOLI, *A convergence result for a vibro-impact problem with a general inertia operator*, *NONLINEAR DYN.*, 58 (2009), 361-384.
40. J.F. MARTINS, J.A. DENTE, A.J. PIRES AND **R. VILELA MENDES**, *From controlled dynamical systems to context-dependent grammars: A connectionist approach*, *Engineering Applications of Artificial Intelligence* 22 (2009) 192–200. (IF 1.397)
41. **R. VILELA MENDES**, *A fractional calculus interpretation of the fractional volatility model*, *Nonlinear Dynamics* (2009) 55: 395–399. (IF 1.295)
42. TANYA ARAÚJO AND **R. VILELA MENDES**, *From Innovation and self-organization in a multi-agent model*, *Engineering Applications of Artificial Intelligence* 22 (2009) 192–200. (IF 0.197)
43. **R. VILELA MENDES**, *Universal families and quantum control in infinite dimensions*, *Physics Letters A* 373 (2009) 2529–2532. (IF 2.174)
44. ERIC CARLEN AND **R. VILELA MENDES**, *Signal reconstruction by random sampling in chirp space*, *Nonlinear Dynamics* 56 (2009) 223-229 (IF 1.295)
45. FRANÇOISE BRIOLLE, RICARDO LIMA, VLADIMIR MAN’KO AND **R. VILELA MENDES**, *A tomographic analysis of reflectometry data: I. Component factorization*, *Measurement Science and Technol.* 20 (2009) 105501. (IF 1.493)
46. F. CIPRIANO, H. OUERDIANE AND **R. VILELA MENDES**, *Stochastic solution of a KPP-type nonlinear Fractional differential Equation*, *Fractional Calculus and Applied Analysis* 12 (2009) 47-57.
47. **R. VILELA MENDES**, *Stochastic solutions of some nonlinear partial differential equations*, *Stochastics: An International Journal of Probability and Stochastics Processes* Vol. 81 (2009) 279–297
48. **O. NETO** AND A. ARAÚJO, *Moduli of Germs of Legendrian Curves*, *Ann. Fac. Sci. Toulouse Math.*, Vol. XVIII, 4, 2009, pp pp. 645–657.

49. D. L. FINKELSHTEIN, YU. G. KONDRATIEV AND **M. J. OLIVEIRA**, *Markov evolutions and hierarchical equations in the continuum I. One-component systems*, J. Evol. Equ. 9 (2)(2009), 197-233. (IF 0.683)
50. **B. SIMÕES** AND SVENSSON, MARTIN, *Twistor spaces, pluriharmonic maps and harmonic morphisms*, Q. J. Math. 60 (2009), no. 3, 367--385. (IF=0.559)
51. **F. DALBONO** AND **C. REBELO**, *Multiplicity of solutions of Dirichlet problems associated with second order equations in \mathbb{R}^2* , Proc. Edinb. Math. Soc.
52. **M. RAMOS** AND H. TEHRANI, *Perturbation from symmetry for indefinite semilinear elliptic equations*, Manuscripta Math. 128 (2009), 297–314.
53. **M. RAMOS**, *A priori bounds via the relative Morse index of solutions of an elliptic system*, Topol. Methods Nonlinear Anal. 34 (2009), 21-39.
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55. D. BONHEURE AND **M. RAMOS**, *Multiple critical points of perturbed symmetric strongly indefinite functionals*, Ann. Inst. H. Poincaré Anal. Non Linéaire 26 (2009), 675-688.
56. **M. RAMOS**, *On singular perturbations of superlinear elliptic systems*, J. Math. Anal. Appl. 352 (2009), 246-258.
57. **M. RAMOS**, *A note on multiple solutions for sublinear elliptic systems*, Differential and Integral Equations 22 (2009), 901-911.
58. **M. RAMOS** AND W. ZOU, *A note on nodal non-radially symmetric solutions to Emden-Fowler equations*, Electron. J. Diff. Eqns., Vol. 2009(2009), No. 40, pp. 1–5. (Mathematical Citation Quotient: 0.39)
59. **M.R. RAMOS**, **E. CAROLINO**, **T. OLIVEIRA**, **A.P. SILVA**, **R. CARVALHO** AND **M.BICHO.**, *Haptoglobin, acid phosphatase and demografic factors: obesity risk*, Biometrical Letters, 46, n°1, 43-54.
60. **MARGHERI**, **C. REBELO** AND F. ZANOLIN, *Connected branches of initial points for asymptotic BVPs and applications to heteroclinic solutions*, Nonlinear Studies, 9 (2009), 95-135. (IF: 0,562)
61. P. RODRIGUES, M.G:M. GOMES, **A. MARGHERI** AND **C. REBELO**, *Heterogeneity in susceptibility to infection can explain high reinfection rates*, Journal of Theoretical Biology, 259 (2009), 280-290. (IF: 2,454)
62. MIRANDA, FERNANDO, **J.F. RODRIGUES** AND **L. SANTOS**, *A class of stationary nonlinear Maxwell systems*, Math. Models Methods Appl. Sci. 19 (2009), no. 10, 1883--1905. (IF 2.333)
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64. **B. SIMÕES** AND SVENSSON, MARTIN, *Twistor spaces, pluriharmonic maps and harmonic morphisms*, Q. J. Math. 60 (2009), no. 3, 367--385. (IF=0.559)
65. J. MARTINS, A. PINTO, AND **N. STOLLENWERK**, *A scaling analysis in the SIRI epidemiological mode*, Journal of Biological Dynamics 3 (2009), 479–496.
66. **M. AGUIAR**, **N. STOLLENWERK** AND B. KOOI, *Torus bifurcations, isolas and chaotic attractors in a simple dengue fever model with ADE and temporary cross immunity*, Intern. Journal of Computer Mathematics 86, (2009), 1867–77. (IF 0.308)

67. R. GONÇALVES, A. PINTO AND **N. STOLLENWERK**, *Cycles and Universality in Sunspot Numbers Fluctuations*, *Astrophysical Journal* 691, 1583–1586. (IF 6.331)
68. J. MARTINS, A. PINTO, AND **N. STOLLENWERK**, *A scaling analysis in the SIRI epidemiological mode*, *Journal of Biological Dynamics* 3 (2009), 479–496.
69. A. USVYATSOV, *On generically stable types in dependent theories*, *J. Symbolic Logic* Volume 74, Issue 1 (2009), 216-250. (IF 0.439)

Published online in 2009:

- C. BARBAROSIE** AND **A.-M. TOADER**, *Shape and Topology Optimization for Periodic Problems Part I: The shape and the topological derivative*, *Structural and Multidisciplinary Optimization*, Online First, 2009, doi:10.1007/s00158-009-0378-0. Impact Factor (2009) : 1.28
- C. BARBAROSIE** AND **A.-M. TOADER**, *Shape and Topology Optimization for Periodic Problems Part II: optimization algorithm and numerical examples*, *Structural and Multidisciplinary Optimization*, Online First, 2009, doi:10.1007/s00158-009-0377-1. Impact Factor (2009) : 1.28
- C. BARROSO** AND J. MATIAS, *An ill posed problem in $SBV_0^2(\Omega)$* , to appear in *J. Convex Analysis* in 2010 (IF = 0.911); available on-line in 2009.
- N.V. CHEMETOV**, F. CIPRIANO, S. GAVRILYUK, *Shape Shallow water model for the lake with friction and penetration*, *Math. Methods Appl. Sci.*, Published Online, 2009. Impact Factor in the section of Applied Mathematics: 0.767.
- M. FERREIRA**, **B. SIMÕES** AND J.C. WOOD, *All harmonic 2-spheres in the unitary group, completely explicitly*, *Mathematische Zeitschrift*, Online First (2009), <http://www.springerlink.com/content/w1w26wp2348313m6/> (5-Year Impact Factor: 0,798)
- S.N. ANTONTSEV**, **J.P. DIAS**, **M. FIGUEIRA** AND F. OLIVEIRA, *Non - existence of global solutions for a quasilinear Benney system*, *Journal Math. Fluid Mechanics*, (2009), DOI 10.1007/s00021-009-0014-1.
- M.N. OLIVEIRA** AND **F. HILKER**, *Modelling disease introduction as biological control of invasive predators to preserve endangered prey*, *Bulletin of Mathematical Biology* 72, 444–468. DOI: 10.1007/s11538-009-9454-2 (published online 29.9.2009, journal impact factor 1.735)
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- H. MOURIÑO** AND **M.I. BARÃO**, *A comparison between the Linear Regression Model with autocorrelated errors and the Partial Adjustment Model*. *Stoch Environ Res Risk Assess.* doi: .10.1007/s00477-009-0340-0
- AUREA. QUINTINO**, *Constrained Willmore Surfaces: symmetries of a Moebius invariant integrable system*, based on the author's PhD Thesis, arXiv:math.DG/0912.5402v1 (2009).

REMARK: F. HILKER had a contract Ciência 2007 at CMAF up to 12/03/09.

R. Sá Leão had a contract Ciência 2007 at CMAF up to 15/12/2009.

(B) Books (chapters)

1. **T. FARIA**, *Global stability and singularities for Lotka-Volterra systems with delays*, in Proceedings of the Conference on Boundary Value Problems. Mathematical Models in Engineering, Biology and Medicine, A. Cabada, E. Liz and J.J. Nieto Eds, American Institute of Physics, New-York (2009), 138--147.
2. **HERMENEGILDO OLIVEIRA**, On the influence of an absorption term in incompressible fluid flows. In Advances in Mathematical Fluid Mechanics, Editors: A. Sequeira and R. Rannacher, Springer-Verlag (2009), pp. 409-424.
3. **R. ENGUIÇA AND L. SANCHEZ**, *A second order non-autonomous problem on the half-line: a variational approach*, in *Mathematical models in engineering, Biology and Medicine*, AIP Conference Proceedings, Melville 2009, A. Cabada, E. Liz and J. J. Nieto (eds.), 119-128.
4. **J.P. BOTO AND N. STOLLENWERK**, *Fractional calculus and Levy flights: modelling spatial epidemic spreading*, Proceedings of 9th Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2009, ISBN 978-84-612-9727-6, edited by Jesus Vigo Aguiar et al., Salamanca, 2009, pp. 177–188.
5. **J.P. BOTO AND N. STOLLENWERK**, *Reaction-superdiffusion systems in epidemiology, an application of fractional calculus*, Proceedings of the International Conference on Numerical Analysis and Applied Mathematics, ICNAAM 2009, Simos, Theodore E.; Psihoyios, George; Tsitouras, Ch., (eds.) AIP Conference Proceedings 1168. Pages 1548-1551. (ALSO INCLUDED IN Other publications International OF GROUP 8)

(C) Communications in proceedings (International)

1. **S.N. ANTONTSEV AND S. SHMAREV**, *Localization and blow - up of solutions to parabolic equations with nonstandard growth conditions*, Proceedings of the 3rd International Conference on Approximation Methods and Numerical Modelling in Environment and Natural Resources, MAMERN 2009, June 8-11, 2009, PAU, FRANCE, pp.145-150.
2. **S.N. ANTONTSEV AND S. SHMAREV**, Directional localization of solutions to elliptic equations with nonstandard anisotropic growth conditions. In book "More Progresses in Analysis. Proceedings of the 5th International ISAAC Congress, 25-30 July 2005, University of Catania, Italy. Editors H.G. W Begehr, F. Nicolosi. World Scientific Publishing Co. Pte. Ltd, 2009, pp. 681-690.
3. **S.N. ANTONTSEV AND S. SHMAREV**, On a doubly nonlinear parabolic equation with nonstandard growth conditions, Proceedings of the 3rd International Conference on Approximation Methods and Numerical Modelling in Environment and Natural Resources, MAMERN 2009, June 8-11, 2009, PAU, FRANCE, pp.151-156.S.
4. **BALLESTEROS, A. CAMACHO AND B. CAZELLES**, *Analytic Introducing gradual antigenic drift in co-circulating cross reactive antigenic cluster models*,

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5. **A.C. BARROSO**, G. CROCE AND A. M. RIBEIRO, *On an isotropic differential inclusion*, International Conference on Complex Systems and Applications, University of Le Havre, France, July 2009.
 6. **N.V. CHEMETOV**, *The numerical analysis of two – shape memory model*, in the book: *Shape Memory Alloys: Manufacture, Properties and Applications*, F. COLUMBUS, (ED.), SERIES: MATERIALS SCIENCE AND TECHNOLOGIES, 2009.
 7. **JAIME COMBADA** AND **GABRIELA GOMES**, *HIV stages contributions to the epidemic, due to changing viral load*, Proceedings of the International Conference on Numerical Analysis and Applied Mathematics, ICNAAM 2009, Simos, Theodore E.; Psihoyios, George; Tsitouras, Ch., (eds.) AIP Conference Proceedings 1168. Pages 1544-1547.
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 9. **P. GERRISH**, *Some observations about the nearest-neighbour model of the error threshold*, Proceedings of the International Conference on Numerical Analysis and Applied Mathematics, ICNAAM 2009, Simos, Theodore E.; Psihoyios, George; Tsitouras, Ch., (eds.) AIP Conference Proceedings 1168. Pages 1564-1548.
 10. **N. VAN GOETHEM**, G. ALLAIRE AND F. JOUVE, *A level set method for the numerical simulation of damage evolution*, in Proceedings of ICIAM 2007 Zürich, R. Jeltsch and G. Wanner eds., pp.3-22, EMS, Zürich (2009).
 11. R. ROSSI, G. BITELLA, R. BOCHICCHIO, M. AMATO, **J.J.F. GOMES**, S. BARONTI, F. MIGLIETTA, F. AND S. CASTALDI, *Effetto dei Sistemi di Gestione e della Variabilità Spaziale del Suolo sulla Resistività Elettrica Tramite Tomografia 2-D*. Atti XXXVIII Convegno SIA, Editor M. Bindi, 21-23 Settembre 2009, Firenze, Italy, pp. 349-350 (2009).
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 13. S. VAN NOORT, **N. STOLLENWERK** AND L. STONE, *Analytic likelihood function for data analysis in the starting phase of an influenza outbreak*, Proceedings of 9th Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2009, ISBN 978-84-612-9727-6, edited by Jesus Vigo Aguiar et al., Salamanca, 2009, pp. 1072–1080.
 14. **N. STOLLENWERK**, **M. AGUIAR** AND B. W. KOOL, *Computational aspects in the investigation of chaotic multi-strain dengue models*, Proceedings of 9th Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2009, ISBN 978-84-612-9727-6, edited by Jesus Vigo Aguiar et al., Salamanca, 2009, pp. 995–1002.
 15. **N. STOLLENWERK**, *From dynamical processes to likelihood functions, an application to internet surveillance data for influenza like illnesses*, Proceedings of the International Conference on Numerical Analysis and Applied Mathematics,

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16. **MAÍRA AGUIAR**, BOB W. KOOI AND **N. STOLLENWERK**, *Multi-strain deterministic chaos in dengue epidemiology, a challenge for computational mathematics*, Proceedings of the International Conference on Numerical Analysis and Applied Mathematics, ICNAAM 2009, Simos, Theodore E.; Psihoyios, George; Tsitouras, Ch., (eds.) AIP Conference Proceedings 1168. Pages 1555-1558.
 17. ALBERTO PINTO, JOSE MARTINS AND **NICO STOLLENWERK**, The higher moment dynamics on SIS model, Proceedings of the International Conference on Numerical Analysis and Applied Mathematics, ICNAAM 2009, Simos, Theodore E.; Psihoyios, George; Tsitouras, Ch., (eds.) AIP Conference Proceedings 1168. Pages 1527-1530.
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