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Work History

2016-09 - Current

Professor

Department of Informatics, Ionian University, Corfu

2016-06 - Current

Visiting Professor

Wilfrid Laurier University, Waterloo, Ontario, Canada

2015-01 - Current

Laboratory Director

BiHELab, Ionian University, Corfu

2012-12 - Current

Head of Department

Department of Informatics, Ionian University, Corfu

2000-10 - Current

Mathematics Tutor

Hellenic Open University

2012-07 - 2016-09

Associate Professor

Department of Informatics, Ionian University, Corfu

2007-04 - 2012-07

Assistant Professor

Department of Informatics, Ionian University, Corfu

2004-10 - 2007-04

Visiting Assistant Professor

Department of Informatics, Ionian University, Corfu



Education

1991-01 - 1996-01

Ph.D.: Applied Mathematics

National Technical University of Athens - Athens

1987-01 - 1991-01

Bachelor of Science: Mathematics

University of Athens - Athens



Interests

- Mathematical Modeling
- Computational Biomarkers
- Computational Neurodegeneration
- Bioinformatics
- Neuroinformatics
- Neuroeducation



Publications (Journals)

1. Lacey A. A., Tzanetis D. E. & Vlamos P. M. "Behaviour of a non-local reactive convective problem modelling ohmic heating of foods", *Quarterly Journal of Mechanics and Applied Mathematics* 52 (4), 1999, 623 - 644.
2. Polyzou A., Vlamos P.M., Dimakos G.M., Yakoumis I.V. & Kontogeorgis G.M. "Assesment of Activity Coefficient Models for Predicting Solid-Liquid Equilibria of Asymmetric Binary Alkane Systems", *Industrial & Engineering Chemistry Research*, 38, 1999, 316 - 323.
3. Vlamos P. M. "Heat Conduction dominated by Electromagnetic Radiation", *Bulletin of the Greek Mathematical Society*, 41, 1999, 101-104.
4. Kontogeorgis G. M., Vlamos P. M. & Bilchev S.J. "Limiting Cases of Thermodynamic Functions", *Bulletin of the Univ. Baia Mare*, XV, 1-2, 1999 9-16.
5. Vlamos P.M. "Behavior of Reaction-Diffusion Problems with Critical Values out of the spectrum", *The Annals of Ovidius University, Math. Series*, 7, 2, 1999, 81-88.
6. Kontogeorgis G. M., Yakoumis I. V. & Vlamos P. M. "Application of the sCPA Equation of State for Polymer Solutions", *Computational and Theoretical Polymer Science* 10, 2000, 501-506.
7. Countinho J. A. P., Vlamos P. M. & Kontogeorgis G. M. "General Form of the Cross-Energy Parameter of Equations of State", *Industrial & Engineering Chemistry Research*, 39, 2000, 3076-3082.
8. Kontogeorgis G. M. & Vlamos P. M. "An interpretation of the behavior of EoS/GE models for asymmetric systems", *Chemical Engineering Science* 55, 2000, 2351-2358.
9. Psarakos P.J. & Vlamos P. M. "The q-numerical range of matrix polynomials", *Linear & Multilinear Algebra*, 47, 2000, 1 - 10.
10. Baralis G., Malafekas Th., Rappos E. & Vlamos P. "The instruction of Euclidean Geometry with the use of educational software in multilingual classes", *The teaching of Mathematics*, III, 2, 2000, 105-113.

11. State L. & Vlamos P. "Informational Analysis of the Genetic Search", The Annals of Bucharest University XLIX, 2000, 113-122.
12. Vlamos P.M. "Diffusion Dependence and Stability in a Porous Media Model from Plasma Physics", The Annals of University Spiru Haret, 2000.
13. State L. & Vlamos P. "The POMDP modeling in the Analysis of Genetic Algorithms", The Annals of Bucharest University XLIX, 2000, 123-133.
14. Vlamos P.M. "Properties of the function $f(x)=x/\pi(x)$ ", International Journal of Mathematics and Mathematical Sciences, 28, 5, 2001, 307-31
15. Tzanetis D. E. & Vlamos P. M. "A Nonlocal Problem modelling Ohmic Heating with variable Thermal Conductivity", Nonlinear Analysis: Real world Applications 2, 2001, 443-454.
16. Tzanetis D. E. & Vlamos P. M. "Some Interesting Special Cases of a Nonlocal Problem Modelling Ohmic Heating with Variable Thermal Conductivity", Proceedings of the Edinburgh Mathematical Society, 44, 2001, 585-595.
17. Vlamos P.M. "Inequalities involving the sequence of differences of the prime numbers", Centre des Rech. Maths Pures, 1, 32, 2001, 32-40.
18. Bokov V., Bilchev S.J. & Vlamos P.M. "A Model of Management of targeted Capital structure of a company", Bulletin of the Univ.of Baia Mare, B, XVII, 1-2, 2001, 13-22.
19. Bilchev S.J. & Vlamos P.M. "A New Glance on the Fundamental Triangle Inequality", Mathematics, Informatics & Physics, Union of Scientists-Russe, 5 (1), 2001, 69-73.
20. Bilchev S.J. & Vlamos P.M. "About a strange Walther Janous' problem Mathematics, Informatics & Physics, Union of Scientists-Russe, 5 (1), 2001, 83-87.
21. Vlamos P.M. "On P. Mandl's inequality", Centre des Rech. Maths Pures 2, 20, 2002, 34-38.
22. Vlamos P.M. "On the monotony of certain sequences", Octogon, 10 2002, 370-371.
23. Vlamos P.M. "Sequences and series involving the sequence of composite numbers", International Journal of Mathematics and Mathematical Sciences 31:1, 2002, 31-36.
24. Velikova E., Bilchev S.J. & Vlamos P.M. "Hard Problems Created by Gifted Students", Revista Escolar de la Olimpiada Iberoamericana de Matematicas, 2, 2002 (e-journal).
25. Vlamos P.M. "Estimations of the Blow-up time in a nonlinear nonlocal problem modeling Ohmic Heating", Bulletin of the Univ. of Pitesti, 8, 2002 189-198.
26. Vlamos P.M. "Behavior of the first eigenvalue of the steady-state problem of Reaction-Diffusion Processes", Bulletin of the Technical University of Bucharest (Constructions dep.), 2, 2003, 69-74.
27. State L, Cocianu C. & Vlamos P. "Neural Network for Principal

- Component Analysis with Applications in Image Compression", Journal of Systemics, Cybernetics and Informatics, 2, 6, 2005.
28. Vlamos P.M. "On The Numbers of Solutions for the Equation $n-\phi(n) = m$ ", Journal of Algebra Number Theory and Applications, 6 (3), 2006, 609-613.
29. State L, Cocianu C. & Vlamos P, "The Use of Features Extracted from Noisy Samples for Image Restoration Purposes", Informatica Economica Journal, 41 (1), 2007, 73-78
30. Vlamos P.M. "Regularity of Solutions of Reaction-Diffusion Problems", Far East Journal of Applied Mathematics, 26 (1), 2007, 59-64.
31. Vlamos P.M. "Convergence of stationary solutions of reaction-diffusion problems", Journal of Interdisciplinary Mathematics, 10 (4), 2007, 553-557
32. Cocianu.C, State.L, Vlamos.P, "The Use of Features Extracted from Noisy Samples for Image Restoration Purposes", Informatica Economica Journal, 11 (1), 2007, 73-78.
33. Cocianu.C, State.L, Vlamos.P, "Principal Axes-Based Classification with Application in Gaussian Distributed Sample Recognition", Economic Computation and Economic Cybernetics Studies and Research, 41, (1-2) 2007.
34. State L, Cocianu C, Stefanescu V, Vlamos P, "Fuzzy modeling and Bayesian Interface Network", Informatica Economica Journal, 44 (4), 2008, 68-71.
35. Vlamos P.M. "Lower bounds of the blow-up time for reactions", Journal of Interdisciplinary Mathematics, 11 (1), 2008, 67-75.
36. Panayotopoulos.A and Vlamos.P, "Meandric Polygons" Ars Combinatoria 87 (2008), pp. 147-159.
37. State L, Cocianu C, Vlamos P, Stefanescu V, "A New unsupervised Scheme to Classify data of relative small volume", Economic Computation and Cybernetics Studies and Research, 42 (1-2), 2008 109-120.
38. State L, Cocianu C, Stefanescu V, Vlamos P, "Denoising Techniques Based on the Multiresolution Representation", Informatica Economica Journal, 12 (2), 2008, 29-35
39. Floros A., Avlonitis M., Vlamos P., "Frequency-Domain Stochastic Error Concealment for Wireless Audio Applications", Journal of Mobile Networks and Applications, 13 (3-4), 2008, 357-365.
40. Arvanitis.M, Vlamos.P, "Bayesian analysis of data and model uncertainty in 3D seismic travel-time tomography", Cent. Eur. J. Geosci, 1(2), 2009, 227-231
41. Sioutas S, Sofotassios D, Tsihlias K, Sotiropoulos D. & Vlamos P. "Canonical Polygon Queries on the Plane: A New Approach", Journal of Computers, 4 (9), 2009, 913-919.
42. Arvanitis.M. & Vlamos P. "Bayesian analysis of data and model

- uncertainty in 3D seismic travel-time tomography", *Central European Journal of Geosciences*, 1 (2), 2009, 227-231.
43. Panayotopoulos A, Vlamos P "Cutting degree of meanders", 8th Artificial Intelligence Applications & Innovations, Springer IFIP Advances Information and Communication Technology series, Volume 382/2012, 480-489, DOI: 10.1007/978-3-642-33412-2_49
44. Vlamos, P. (2007). Convergence of stationary solutions of reaction-diffusion problems. *Journal of Interdisciplinary Mathematics*, 10(4), pp.55-57.
45. State, L., Cocianu, C., Vlamos, P. and Stefanescu, V. (2008). A new unsupervised learning scheme to classify data of relative small volume. *Economic Computation and Economic Cybernetics Studies and Research*, 42(1-2), pp.109-120.
46. Cocianu, C., ȘTEFĂNESCU, V. and Vlamos, P. (2007). Fuzzy modeling and bayesian inference network. *Informatica Economica*, 11(4), pp.68-7
47. Alexiou, A., Psiha, M. and Vlamos, P. (2011). Combinatorial permutation based algorithm for representation of closed RNA secondary structures. *Bioinformatics*, 7(1), pp.91-95.
48. Alexiou, A., Psiha, M. and Vlamos, P. (2011). A stochastic model for protein synthesis and activation through RNA-protein interaction in bioambients calculus. *Comput Technol Appl*, 2, pp.565-569.
49. State, L., Cocianu, C & Vlamos, P. "New and Old Developments in Solving Specific Image Processing", *Journal of Economic Computation and Economic Cybernetics Studies and Research*, 44 (4),2010, 67-87.
50. State, L., Cocianu, C & Vlamos, P. "A New Learning Algorithm of SVM from Linear Separable Samples", *Applied Mechanics and Materials*, (58-60), 2011, 983-988.
51. Giannakos, M.N., & Vlamos, P. "Investigating the Effect of Duration in Educational Webcast Adoption, *Procedia Social and Behavioral Sciences* 15, 2011, 160-164.
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53. Alexiou A., Psiha M & Vlamos P., "A Stochastic Model for protein Synthesis and Activation through RNA-Protein Interaction in BioAmbients Calculus", *Computer Technology and Application*, 7 (2), 2011.
54. Alexiou A., Vlamos P., "A new Motzkin class for joint RNA secondary structures", *Bioinformatics*, 6 (4), 162-163, 2011.
55. Alexiou A., Rekkas J. & Vlamos P. "Modeling the mitochondrial dysfunction in neurogenerative diseases due to high H⁺ concentration", *Bioinformatics*, 6 (5), 2011.
56. Alexiou A, Psiha M, Vlamos P. "Combinatorial permutation based algorithm for representation of closed RNA secondary structures",

Bioinformatics 7(2):91-95, PubMed: 21938211, 2011

57. Alexiou A, Psiha M, Vlamos P. "Ethical issues of Artificial Biomedical Applications", 7th Artificial Intelligence Applications & Innovations, Springer IFIP Advances in Information and Communication Technology series, Vol. 364: 297-302, DOI: 10.1007/978-3-642-23960-1_36, 2011

58. Alexiou A, Vlamos P "A Cultural Algorithm for the Representation of Mitochondrial Population", Advances in Artificial Intelligence, Hindawi Publishing Vol. 2012, ID 457351, doi:10.1155/2012/457351

59. Giannakos, M. and Vlamos, P. (2012). Educational webcasts' acceptance: Empirical examination and the role of experience. British Journal of Educational Technology, 44(1), pp.125-143.

60. Giannakos, M. and Vlamos, P. (2012). Educational webcasts' acceptance: Empirical examination and the role of experience. British Journal of Educational Technology, 44(1), pp.125-143.

61. Giannakos, M. and Vlamos, P. (2012). Using webcasts in education: Evaluation of its effectiveness. British Journal of Educational Technology, 44(3), pp.432-441.

62. Alexiou A, Psiha M, Vlamos P "Expert System for Early Diagnosis and Progress Monitoring of Parkinson's Disease", International Journal on Artificial Intelligence Tools, World Scientific Publishing, submitted in special issue, 2012

63. Alexiou A, Psiha M, Vlamos P "An integrated ontology-based model for the early diagnosis of Parkinson's disease", 8th Artificial Intelligence Applications & Innovations, Springer IFIP Advances in Information and Communication Technology series, Volume 382/2012, 442-450, DOI: 10.1007/978-3-642-33412-2_45, 2012

64. Alexiou A, Vlamos P "Evidence for early identification of Alzheimer's disease", arXiv:1209.4223v2 [q-bio.NC], 2012

65. Vlamos P, Lefkimmiatis K, Cocianu C, State L, Luo Z "Artificial Intelligence Applications in Biomedicine", Editorial, Hindawi Publishing Corporation, Advances in Artificial Intelligence, Volume 2012, Article ID 219137, 2 pages, doi:10.1155/2012/219137

66. Panayotopoulos A, Vlamos P "Compression of meanders", Journal of Discrete Mathematics Hindawi Publishing, Volume 2013 (2013), Article ID 851751, 6 pages, <http://dx.doi.org/10.1155/2013/851751>

67. Cocianu, C., State, L., Mircea, M. and Vlamos, P. (2013). A Faster Gradient Ascent Learning Algorithm for Nonlinear SVM. ISRN Applied Mathematics, 2013, pp.1-11.

68. Vlamos, P., Chrissikopoulos, V. and Psiha, M. (2014). Building Vulnerability: An Interdisciplinary Concept. Key Engineering Materials, 62 pp.193-197.

69. Vlamos, P., Pateli, A. and Psiha, M. (2014). Hybrid Model for Measurement of Building Vulnerability. Key Engineering Materials, 628,

pp.237-242.

70. Vlamos, P., Chrissikopoulos, V. and Psiha, M. (2014). Building Vulnerability: An Interdisciplinary Concept. *Key Engineering Materials*, 62 pp.193-197.

71. Vlamos, P., Pateli, A. and Psiha, M. (2014). Hybrid Model for Measurement of Building Vulnerability. *Key Engineering Materials*, 628, pp.237-242.

72. Giannakis, K., Theocharopoulou, G., Papalitsas, C., Andronikos, T. and Vlamos, P. (2016). Associating ω -automata to path queries on Webs of Linked Data. *Engineering Applications of Artificial Intelligence*, 51, pp.111-123.

73. Spathis, D. and Vlamos, P. (2017). Diagnosing asthma and chronic obstructive pulmonary disease with machine learning. *Health Informatic Journal*, 25(3), pp.811-827.

74. Xochelli, A., Bikos, V., Polychronidou, et. al., (2019). Disease-biased and shared characteristics of the immunoglobulin gene repertoires in marginal zone B cell lymphoproliferations. *The Journal of Pathology*, 247(4), pp.414-421.



Publications (Book Chapters)

1) Lacey A. A., Tzanetis D. E. & Vlamos P. M. "Global existence and Finite Time Blow-Up of a Nonlocal Hyperbolic Problem Modelling Ohmic Heating of Foods", *Mathematical Methods in Scattering Theory and Biomedical Technology*, Pitman Research Notes In Mathematics Series, 1998, 20-32.

2) Vlamos P.M. "Diffusion Dominated by the Source Term in Nonlinear Nonlocal Models", *Scattering Theory and Biomedical Engineering Modelling and Applications*, World Scientific, 2000,185-191.

3) Bilchev S.J. & Vlamos P.M. "About some Improvements of the Finsler-Hadwiger's Inequality", *Geometry & Mathematics Competitions*, papers contributed to Topic Area 1, 4th Congress of the World Federation of National Mathematical Competitions, 2002, 19-36.

4) Velikova E., Bilchev S.J. & Vlamos P.M. "Student's Hard Geometry Problems", *Geometry & Mathematics Competitions*, papers contributed to Topic Area 1, 4th Congress of the World Federation of National Mathematical Competitions 2002, 227-234.

5) Vlamos P.M. "Inequalities involving the sequence of the composite numbers", Piraeus University, Prof. A.Panagiotopoulou , 2006.

6) Alexandris N., Alexiou A. & Vlamos P. "Hidden Markov Models for representation of Biological Data", Piraeus University, Prof. Karvouni, 2010.



Publications (Conference Proceedings)

- 1) State L., Cocianu C. & Vlamos P. "Statistical Based Approaches of Image Restoration", 12th International Conference on Control Systems and Computer Science, 1999.
- 2) Vlamos P.M., Bilchev S.J. & Papanagiotakis D.C. "ActiveWeb Mathematics", International Conference'99 devoted to 45-anniversary of the University of Rousse, Section 8, Mathematics and Informatics, 1999.
- 3) Vlamos P.M. "Asymptotic Behaviour and Blow-up of solutions of a class of Semilinear Nonlocal Parabolic Equations", 16th IMACS WORLD CONGRESS 2000 on Scientific Computation, Applied Mathematics and Simulation, 2000.
- 4) Vlamos P.M. "Asymptotic Stability in Nonlinear Non-local models", Alhambra 2000 Symposium on Non-linear Problems, 2000.
- 5) Rappos E., Psarrakos P. & Vlamos P. "Mathematical Modeling in Secondary Education", Alhambra 2000 Symposium on Public Mathematics, 2000.
- 6) State L., Cocianu C. & Vlamos P. "Attempts in using Statistical Tools for Image Restoration Purposes", 5th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI2001), 2001.
- 7) State L., Cocianu C. & Vlamos P. "A regressive technique of Image Restoration", 29th International Conference on Computers and Industrial Engineering, 2001.
- 8) Cocianu C., State L. & Vlamos P. "A multiresolution based approach to data compression / decompression", 29th International Conference on Computers and Industrial Engineering, 2001.
- 9) State L., Cocianu C. & Vlamos P. "A Comparative Study of the efficiency of Noise removal Algorithms", 30th International Conference on Computers and Industrial Engineering (ICC&IE), 2002.
- 10) State L., Cocianu C. & Vlamos P. "Nonparametric Approach to learning the Bayesian Procedure for Hidden Markov Models", 6th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI2002), 2002.
- 11) State L., Cocianu C. & Vlamos P. "HMM Modeling in learning the Bayesian Recognition Procedure", 4th International Conference on Material Handling and Logistics Systems (ICMH/LS'2002), 2002.
- 12) State L., Cocianu C., Vlamos P. & Miroiu M. "A specialized Neural Network for implementing the HMM approach in Learning the Bayesian Procedure", 4th International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 02), 2002.
- 13) State L., Cocianu C. & Vlamos P. "A Neural Architecture in HMM Modeling of the Bayesian Procedure for Pattern Recognition Purposes", 31st International Conference on Computers and Industrial Engineering

(ICC & IE), 2002.

14) Cocianu C., State L. & Vlamos P. "On a certain Class of Algorithms for Noise Removal in Image Processing: A Comparative study", International Symposium on Information Technology (ITCC 2002), 2002.

15) Velikova E. & Vlamos P. "Creative Education on Mathematics for Gifted students", 2nd International Conference "Creativity in Mathematics Education and the Education of Gifted students", 2002.

16) Cocianu C., State L., Stefanescu V. & Vlamos P., "Noise Removal Techniques using the multiresolution representation", 32nd International Conference on Computers and Industrial Engineering (ICC & IE), 2003.

17) State L, Cocianu C. & Vlamos P. "On the efficiency of a Class of PCA Algorithms in Digital Signal Processing", 5th International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 03), 2003.

18) Cocianu C., State L., Stefanescu V. & Vlamos P., "The Use of Wavelet Representation for Noise Removal Purposes in Image Processing", The International Conference on Computing, Communications and Control Technologies (CCCT 2004), 2004.

19) Cocianu C., State L., Stefanescu V. & Vlamos P., "Wavelet Based Techniques in Image Processing", 8th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI2004), 2004.

20) Cocianu C., State L., Stefanescu V. & Vlamos P., "Using the noise features in Image Restoration", 33rd International Conference on Computers and Industrial Engineering, 2004.

21) State L., Cocianu C., Vlamos P. & Stefanescu V., "Toward the Use of Neural Networks for Learning the Bayesian Classification procedure", 34th International Conference on Computers and Industrial Engineering, 2004.

22) Cocianu C., State L., Stefanescu V. & Vlamos P., "On the Efficiency of a Certain Class of Noise Removal Algorithms in Solving Image Processing Tasks", 1st International Conference on Informatics in Control, Automatic and Robotics (ICINCO), 2004.

23) Cocianu C., State L., Stefanescu V. & Vlamos P., "A Neural Network Framework for Implementing the Bayesian Learning", 1st International Conference on Informatics in Control, Automation and Robotics (ICINCO 2004).

24) Cocianu C., State L., Vlamos P. & Stefanescu V., "PCA Based Shrinkage Attempt to noise Removal", 35th International Conference on Computers and Industrial Engineering, 2005.

25) Cocianu C., State L., Stefanescu V. & Vlamos P., "New Attempts in Boundary Detection", 3rd International Conference on Computing, Communications and Control Technologies (CCCT 2005), 2005.

26) State L., Cocianu C., Stefanescu V. & Vlamos P., "Noise Removal Algorithm Based on Code Shrinkage Techniques", 9th World Multi-

- Conference on Systemics, Cybernetics and Informatics (WMSCI2005), 2005.
- 27) State L., Cocianu C. & Vlamos P., "A New Noise reduction method in developing Image Restoration Applications", 5th International Conference on Material Handling (ICMH'2005), 2005.
- 28) State L., Cocianu C. & Vlamos P., "Using The Adapted Innovation Algorithm For Noise Reduction In Image Processing", 7th International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC'05), NATO Series, RISC Institute, 2005.
- 29) State L., Cocianu C., Stefanescu V. & Vlamos P. "PCA-Based Data Mining Probabilistic and Approaches with Applications in Pattern Recognition", International Conference on Software and Data Technologies (ICSOFT 2006), 2006.
- 30) State L., Cocianu C., Stefanescu V. & Vlamos P. "PCA-Based Attempt to Noise Reduction in Terms of Predictive Techniques" 10th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2006), 2006.
- 31) State L., Cocianu C., Stefanescu V., & Vlamos P. "PCA-Based Noise Removal Techniques Using the Information Extracted from Noisy Examples", The 36th CIE Conference on Computers & Industrial Engineering (CIE 2006), 2006.
- 32) A. Floros, M. Avlonitis, and P. Vlamos, "Stochastic packet reconstruction for subjectively improved audio delivery over WLANs," in Proceedings of the 3rd International Mobile Multimedia Communication Conference (MOBIMEDIA '07), 2007.
- 33) Poulos M., Vlamos P, Bokus G. & Evangelou A. "Semantic EEG Description", 8th Congress, Italian Association of Telemedicine and Medical Informatics, (AITIM 2007) 2007.
- 34) Avlonitis M. & Vlamos P. "On an analytical signal reconstruction in the presence of additive white noise", 8th Congress, Italian Association of Telemedicine and Medical Informatics, (AITIM 2007), 2007.
- 35) Avlonitis M, Vlamos P. & Oikonomou K. "A Space-Time Analytical Model for Energy Consumption in Wireless Sensor Networks", 6th Annual Mediterranean Ad Hoc Networking Workshop (Med Hoc Net 2007), 2007
- 36) State L., Cocianu C., Stefanescu V. & Vlamos P. "A Connectionist Approach in Bayesian Classification", 9th International Conference on Enterprise Information Systems (ICEIS 2007), 2007.
- 37) State L., Cocianu C. & Vlamos P. "A New Adaptive Classification Scheme Based on Skeleton Information", International Conference on Signal Processing and Multimedia Applications (SIGMAP 2007), 2007.
- 38) State L., Cocianu C., Vlamos P. & Constantin D. "Principal Directions Based Algorithm for Classification Tasks", 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2007),

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39) Deliyannis I, Vlamos P, Floros A, Tsiridou T. & Simpsiri C. "Teaching Bas Number Theory to Students with Speech and Communication Disabilities: Using Multimedia", International Conference on Information Communication Technologies in Education (ICICTE 2008), 2008.

40) State L., Cocianu C., Rosca I. & Vlamos P. "A New Learning Algorithm for Classification in the Reduced Space", 10th International Conference on Enterprise Information Systems (ICEIS 2008), 2008.

41) Vlamos. P. "Points of Intersection of Symmetrical Solutions of Reaction Diffusion Processes", World Congress on Engineering 2008 (WCE 2008), 2008.

42) State L., Cocianu C. & Vlamos P. "An Unsupervised Skeleton Based Method to Discover the Structure of the Class System", Research Challenges in Information Sciences (RCIS 2008), IEEE Computer Society Press, 2008.

43) State L., Cocianu C., Vlamos P. & Constantine D. "Decorrelation Techniques in Image Restoration" International Conference on Signal Processing and Multimedia Applications (SIGMAP 2008), 2008.

44) State L., Cocianu C., Vlamos P. & Constantine D., "Neural Approach to Image Compression/Decompression Using PCA Based Learning Algorithm" 8th International Workshop on Pattern Recognition on Informatics Systems (PRIS 2008), 2008.

45) Avlonitis A., Anagnostou K. & Vlamos P. "On a Probabilistic Method for Exact Spatial Interpolation of Sampling Data: Application to Oliva Fruit Population Data", International Advanced Workshop on Information and Communication Technologies for Sustainable Agro-Production and Environment (AWICTSAE 2008), 2008.

46) State L., Cocianu C. & Vlamos P. "A new adaptive PCA scheme for noise removal in image processing", 50th International Symposium ELMA 2008, IEEE Computer Society Press 2008.

47) Deliyannis I, Floros A, Vlamos P., Arvanitis M. & Tsiridou T, "Bringing Digital Multimedia in Mathematics Education", 7th European Conference on e-Learning , (ECEL 2008), 2008.

48) Alexiou A. & Vlamos P. "Ethics at the Crossroads of Bioinformatics and Nanotechnology" 7th International Conference of Computer Ethics (CE 2009), 2009.

49) State L, Cocianu C. & Vlamos P. "Using Sample Principal Directions for Getting Homogenous Clusters", 3rd International Conference on Internet Technologies and Applications (ITA 2009), 2009.

50) Cocianu C., State L., Vlamos P., Constantine D. & Sararu C. "PCA Supervised and Unsupervised Classifiers in Signal Processing", 9th International Workshop on Pattern Recognition on Informatics Systems (PRIS 2009), 2009.

- 51) State L., Sararu C., Cocianu C. & Vlamos P. "New Approaches in Image Compression and Noise Removal", 1st International Conference Advances in Satellite and Space Communications (SPACOMM 09), 2009
- 52) State L., Cocianu C., Constantine D., Sararu C. & Vlamos P. "Toward Semi-Supervised Approach in Classification based on Principal Direction International Conference on Signal Processing and Multimedia Applications (SIGMAP 2009), 2009.
- 53) Alexiou A. & Vlamos P. "Artificial Intelligence Techniques on Biological Secondary Structures", 10th International Conference on Artificial Intelligence and Symbolic Computation, (AISC 2010), 2010.
- 54) Alexiou A., Vlamos P. & Volikas K. "A theoretical Artificial Approach to reducing mitochondrial abnormalities on Alzheimer's disease", 10th International Conference on Information Technology and Applications in Biomedicine, (ITAB 2010), 2010.
- 55) Vlamos P., Floros A., Giannakos M. & Drossos K. "Towards an Interactive e-learning System Based on Emotions and Affective Cognition", International Conference on Information Communication Technologies Education (ICICTE 2010), 2010.
- 56) Giannakos M. & Vlamos P, "Comparing a Well Designed Webcast with Traditional Learning" Proceedings of the 10th ACM SIGITE conference on Information technology education, (SIGITE 2010), 2010.
- 57) Giannakos, M.N., and Vlamos, P. "Identifying the Predictors of Educational Webcasts' Adoption", Proceedings of the 16th annual conference on Innovation and technology in computer science education, (ITICSE '11), 2011.
- 58) Giannakos, M.N., Doukakis, S., Vlamos, P., & Koilias, C. "Programming Secondary Education: Benefits and Perspectives", Proceedings of the 16th annual conference on Innovation and technology in computer science education, (ITICSE '11), 2011.
- 59) Alexiou A., Psiha M., Vlamos P., "Ethical issues of Artificial Biomedical Applications", 7th Artificial Intelligence Applications & Innovations (AIAI 2011), Vol. 364, IFIP Advances in Information and Communication Technology series, 2011.
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