

Annex I: Representative publications resulting through the Action activities

1. S. Christodoulou and G. Ellinas, "Ant Colony Optimization Agents and Path Routing: The Cases of Construction Scheduling and Urban Water Distribution Pipe Networks", chapter in the book titled *Ant Colonies: Behavior in Insects and Computer Applications*, E. C. Sun (Ed), Nova Science Publishers, January 2011.
2. S. Christodoulou and G. Ellinas, "Pipe Routing through Ant Colony Optimization", *ASCE Journal of Infrastructure Systems*, 16(2):149-159, June 2010.
3. M. Polycarpou, G. Ellinas, E. Kyriakides, and C. Panayiotou, "Intelligent Health Monitoring of Critical Infrastructure Systems" *Proc. IEEE Complexity in Engineering (COMPENG)*, Rome, Italy, February 2010.
4. H. Erkan, G. Ellinas, A. Hadjiantonis, R. Dorsinville, and M. A. Ali, "Native Ethernet-Based Self-Healing WDM-PON Local Access Ring Architecture: A New Direction for Supporting Simple and Efficient Resilience Capabilities", *Proc. IEEE International Communications Conference (ICC)*, Cape Town, South Africa, May 2010.
5. A. M. Hadjiantonis and G. Ellinas, "Towards Autonomic Wireless Networking for the Future Internet", *Proc. Workshop on Socio-Economics Inspiring Self-Managed Systems and Concepts (SEISMYC 2010)*, Budapest, Hungary, September 2010.
6. T. Panayiotou, G. Ellinas, N. Antoniadis, and A. Hadjiantonis, "A Novel Segment-Based Protection Algorithm for Multicast Sessions in Transparent Optical Networks with Mesh Topologies", *Proc. IEEE/OSA Optical Fiber Communications Conference (OFC)*, Los Angeles, CA, March 2011.
7. Redi J, Gastaldo P, Heynderickx I, Zunino R "Color Distribution Information for the Reduced-Reference Assessment of Perceived Image Quality," *IEEE Trans. Circuits and Systems for Video Technology*, Dec. 2010, vol. 20, No. 12, pp.1757-1769.
8. Decherchi S, Tacconi S, Redi J, Leoncini A, Sangiacomo F, Zunino R, "Text Clustering for Digital Forensics Analysis," *Journal of Information Assurance and Security*, No. 5, pp. 384-391, 2010.
9. Leoncini D, Decherchi S, Faggioni O, Gastaldo P, Soldani M, Zunino R, "Linear SVM for Underwater Magnetic Signals Based Port Protection," *Journal of Information Assurance and Security*, No. 5, pp. 401-408, 2010.
10. Buschiazzo P, Leoncini D, Zunino R, Scapolla, "AMA Web-Based Laboratory for Digital Signal Processing," *International Journal of Online Engineering (iJOE)*, No. 6, pp. 6-11, 2010.
11. G. Gnecco, V. Kurkova, M. Sanguineti: Some comparisons of complexity in dictionary-based and linear computational models. *Neural Networks*, 24: 171-182, 2011.
12. S. Ferrari, F. Bellocchio, V. Piuri, N.A. Borghese, "A Hierarchical RBF Online Learning Algorithm for Real-Time 3-D Scanner", *IEEE Transactions on Neural Networks*, Vol. 21, pp. 275-285, 2010.
13. F. Scotti, V. Piuri, "Adaptive Reflection Detection and Location in Iris Biometric Images by Using Computational Intelligence Techniques", *IEEE Transactions on Instrumentation and Measurement*, Vol. 59, pp. 1825 – 1833, 2010.
14. Marco Calabrese, Alberto Amato, Vincenzo Di Lecce, Vincenzo Piuri, "Hierarchical-granularity holonic modelling", *Journal of Ambient Intelligence and Humanized Computing*, Springer Berlin / Heidelberg, 2010.
15. M. Lazzaroni, V. Piuri, C. Maziero, "Computer security aspects in industrial instrumentation and measurements", 2010 *IEEE Instrumentation and Measurement Technology Conference*, pp. 1216 – 1221, 2010.
16. T. Bianchi, R. Donida Labati, V. Piuri, A. Piva, F. Scotti, S. Turchi, "Implementing FingerCode-Based Identity Matching in the Encrypted Domain" in 2010 *IEEE*

- Workshop on Biometric Measurements and Systems for Security and Medical Applications, September 9, 2010.
17. M. Barni, T. Bianchi, D. Catalano, M. Di Raimondo, R. Donida Labati, P. Failla, D. Fiore, R. Lazzeretti, V. Piuri, F. Scotti, and A. Piva, "Privacy-Preserving Fingercodes Authentication", 12th ACM Multimedia and Security Workshop, September 9-10, 2010.
 18. M. Barni, T. Bianchi, D. Catalano, M. Di Raimondo, R. Donida Labati, P. Failla, D. Fiore, R. Lazzeretti, V. Piuri, F. Scotti, and A. Piva, "A Privacy-compliant Fingerprint Recognition System Based on Homomorphic Encryption and Fingercodes Templates", in IEEE Fourth International Conference on Biometrics: Theory, Applications and Systems, September 27-29, 2010.
 19. R. Donida Labati, V. Piuri, F. Scotti, "Measurement of the principal singular point in fingerprint images: a neural approach", in 2010 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications, September 6-8, 2010.
 20. R. Donida Labati, V. Piuri, F. Scotti, "Neural-based Quality Measurement of Fingerprint Images in Contactless Biometric Systems", in IEEE 2010 International Joint Conference on Neural Networks, July 18-23, 2010.
 21. Ferrari, S., Bellocchio, F., Piuri, V., Borghese, N.A., "Multi-scale Support Vector Regression", in IEEE 2010 International Joint Conference on Neural Networks, July 18-23, pp. 1-7, 2010.
 22. Amato A., Piuri V., Di Lecce V., "An Image Retrieval Based Solution for Correspondence Problem in Binocular Vision", 2010 IEEE RIVF International Conference on Computing and Communication Technologies, Research, Innovation, and Vision for the Future (RIVF), pp. 1-6, 2010.
 23. G. Deconinck, W. Labeeuw, S. Vandael, H. Beitollahi, K. De Craemer, R. Duan, Z. Qui, P. Chittur Ramaswamy, B. Vande Meerssche, I. Vervenne, R. Belmans, "Communication Overlays and Agents for Dependable Smart Power Grids," Proc. 5th CRIS Int. Conf. on Critical Infrastructures (CRIS-2010), Beijing, P.R.China, 19-21 Sep. 2010.
 24. G. Deconinck, "Smart Grids, where Energy meets Intelligence – invited speaker," Proc. NGInfra 3rd Int. Conf. on Infrastructure Systems & Services - theme Next Generation Infrastructure System for Eco Cities, Shenzhen, P.R.China, 10-12 Nov. 2010.
 25. G. Gnecco, V. Kůrková, M. Sanguineti, "Some Comparisons of Complexity in Dictionary-Based and Linear Computational Models", Neural Networks, vol. 24, pp.171–182, 2011.
 26. G. Gnecco, V. Kůrková, M. Sanguineti, "Can dictionary-based computational models outperform the best linear ones?", Neural Networks, to appear.
 27. P. C. Kainen, V. Kůrková, M. Sanguineti, "Approximation of Multivariable Functions by Neural Networks", in Handbook of Neural Information Processing. Springer, to appear.
 28. G. Gnecco, V. Kůrková, M. Sanguineti, "Some Comparisons of Model Complexity in Linear and Neural-Network Approximation", Lecture Notes in Computer Science, vol. 6354. Springer, 2011 (Proc. 20th Int. Conf. on Artificial Neural Networks (ICANN 2010), Thessaloniki, Greece, September 15-18, 2010).
 29. G. Gnecco, V. Kurkova, M. Sanguineti, "Bounds for Approximate Solutions of Fredholm Integral Equations using Kernel Networks", Lecture Notes in Computer Science, Springer, to appear (Proc. Int. Conf. on Adaptive and Natural Computing Algorithms (ICANNGA 2011), Ljubljana, Slovenia, April 14-16, 2011).
 30. Lendak I., Erdeljan A. & Popović D. (2011), "Algorithm for cataloguing topologies in the Common Information Model (CIM)", Computers and mathematics with

applications, February 2011, vol 61 (3), pp. 715-721. DOI 10.1016/j.camwa.2010.12.021

31. Lendak I., Varga E., Erdeljan A., and Gavrić M., "RESTful Web Services and the Common Information Model (CIM)," 2010 IEEE International Energy Conference (ENERGYCON 2010), December 2010, Manama, Bahrein.
32. Lendak I., Erdeljan A., Čapko D. & Vukmirović S., "Algorithms in electric power system one-line diagram creation", 2010 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2010), Istanbul, Turkey, pp. 2867-2873, October 2010.
33. Lendák I., Póth M., Čapko D., Vukmirovć S. & Erdeljan A., „Electric Power System One-Line Diagram Generation with Genetic Algorithm“, 8th International Symposium on Intelligent Systems and Informatics (SISY 2010), Subotica, Serbia, pp. 487-491, September 2010.
34. Lendak I., Varga E., Erdeljan A., and Gavrić M., "RESTful Access to Power System State Variables", 2010 IEEE Region 8 International Conference on Computational Technologies in Electrical and Electronics Engineering (SIBIRCON), Irkutsk, Russia, pp. 450-454, July 2010.
35. M. De Felice and X. Yao. "Neural Networks Ensembles for Short-Term Load Forecasting," Presented at 2011 IEEE Symposium on Computational Intelligence Applications in Smart Grid, Paris, France, 11-14 April, 2011.
36. M. De Felice and X. Yao, "Short-Term Load Forecasting with Neural Network Ensembles: A Comparative Study," Accepted by IEEE Computational Intelligence Magazine, 2011.
37. Onur Derin and Alberto Ferrante, "Scheduling energy consumption with local renewable micro-generation and dynamic electricity prices". In CPSWEEK/GREEMBED 2010: Proceedings of the First Workshop on Green and Smart Embedded System Technology: Infrastructures, Methods and Tools, Stockholm, Sweden, April 2010.
38. S. Vukmirovic, S. Lukovic, A. Erdeljan, F. Kulic, "A Smart Metering Architecture as a step towards Smart Grid realization". In Proceedings of the IEEE EnergyCon 2010, Bahrain, December 2010.
39. G. Valverde, S. Chakrabarti, E. Kyriakides, and V. Terzija, "A constrained formulation for hybrid state estimation," IEEE Transactions on Power Systems, pp. 1-8 (accepted Sep. 2010).
40. S. Chakrabarti, E. Kyriakides, G. Ledwich, and A. Ghosh, "On the inclusion of PMU current phasor measurements in a power system state estimator," IET Generation, Transmission, and Distribution, vol. 4, no. 10, pp. 1104-1115, Sep. 2010.
41. M. Asprou and E. Kyriakides, "Optimal PMU placement for improving hybrid state estimation accuracy," IEEE PowerTech 2011, Trondheim, Norway, June 2011.
42. E. Dialynas, L. Daoutis, T. Diagoupis, E. Kyriakides, C. Toufexis, and I. Charalambous, "Technical requirements of distributed generation facilities and their impact on the operational performance of isolated power systems," 7th Mediterranean Conference on Power Generation, Transmission, Distribution, and Energy Conversion (MedPower 2010), Ayia Napa, Cyprus, pp. 1-9, Nov. 2010.
43. S. Chakrabarti, E. Kyriakides, G. Ledwich, and A. Ghosh, "A comparative study of the methods of inclusion of PMU current phasor measurements in a hybrid state estimator," IEEE Power Engineering Society General Meeting, Minneapolis, MN, USA, paper 2010GM0376, pp. 1-7, July 2010.
44. E. Kyriakides and G. T. Heydt, "Synchronized measurements in power system operation: international trends and research," IEEE Power Engineering Society General Meeting, Minneapolis, MN, USA, (panel chair paper), pp. 1-3, July 2010.