

Prof. Chrysostomos D. Stylios

1. GENERAL INFORMATION

- **Academic position:** Professor Dept. of Informatics and Telecommunications, University of Ioannina, 47100, Arta, Greece, **Tel.** +30 26810 50330
- **Nationality:** Greek
- **Birthday:** 1 September 1969
- **Place of Birth:** Arta, Greece
- **Home Address:** Konstantinou Palaiologou 10, 47100 Arta, Greece **Mobile:** +30 697 4638830
- **Marital Status:** Married
- **Email:** stylios@uoi.gr and stylios@kic.uoi.gr
- **www.:** <http://kic.uoi.gr/> & <http://kic.uoi.gr/~stylios/>

2. EDUCATION

- *1/10/1994-14/12/1999:* **PhD with honour** in Electrical & Computer Engineering, University of Patras, Greece. **PhD Thesis:** “Modelling Hierarchical Intelligent Control Systems with Fuzzy Cognitive Maps”
- *1/10/1987-11/12/1992:* **Diploma** in Electrical & Computer Engineering, Aristotle University of Thessalonica, Greece. **Dissertation:** “Assembling puzzle pieces using robot and camera”

3. RESEARCH IN BRIEF / AWARDS

- **Senior IEEE Member (since 2015).**
- **Publications**
 - International Journals : 50
 - Books: 5
 - Book Chapters: 14
 - International Conference with full review: 128
 - International Conference with abstract review : 33
- **Citations :**
 - Number: **3479**; Indicators: **h-index 29**, (*Source: Scopus*)
 - Number : **6343**; Indicators: **h-index 37**, i10-index 89 (*Source: Scholar google*)
- **Award of Outstanding paper** for paper "Fuzzy Cognitive Maps as a tool for modeling construction labor productivity" by A. Seungjun, A. Chettupuzha, R. Ekyalimpa, S. Hague, A. AbouRizk and C. D. Stylios, *Annual Conference of the North American Fuzzy Information Processing Society NAFIPS'2015*, 17-19 August 2015, Redmond, Washington, USA.

4. SCIENCE IN CHARGE OF R&D PROJECTS

- **University of Ioannina (2006-Today)**

Twenty Eight (28) R&D projects with total budget of 3.999.724 Euros
- **Computer Technology Institute and Press “Diophantus” (2011-Today)**

Seven (7) R&D projects with total budget of 1.249.364 Euros
- **Patras Science Park (2006-2011)**

Three (3) R&D projects with total budget of 574.400 Euros

5. RESEARCH INTERESTS

- Graph and Fuzzy Cognitive Maps
- Intelligent Systems, Soft Computing, Computational Intelligence
- Industry 4.0, IoT
- Virtual and Augmentative Reality
- Data mining, Knowledge Mining and Big Data
- Training Algorithms
- Biosignal analysis and processing (FHR, HRV)
- Geographical Information Systems, Environmental Informatics
- Fault detection in Electromechanical Systems
- Modeling Complex Systems
- Decision Support Systems and Medical Application
- Hierarchical Systems, Supervisory Intelligent Control
- Intelligent Manufacturing Systems
- Open Innovation and Sustainable Regional Development

6. ACADEMIC CAREER

- Professor and Director of Lab. for Knowledge & Intelligent Computing (KIC Lab), Department of Informatics and Telecommunications, University of Ioannina, Greece; (10/2017- today)
- Member of Sectorial Council on “Data Policy and AI” of the Greek National Council for Research and Innovation (NCRI) (11/2020-today)
- Member of the Coordination Council of Digital Innovation Institute of University Research Center of University of Ioannina (7/2019-today).
- Research Collaborator, Project Manager, Computer Technology Institute & Press, Patras, Greece www.cti.gr (9/2011-today)
- Visitor Researcher (sabbatical), Dept Electrical & Computer Engineering, University of Alberta, Canada (10/2014 - 2/2015)
- Visitor Researcher (sabbatical), Dept. Computer Science, University of Texas at El Paso, USA, (3/2015 - 9/2015)
- Associate Professor, Dept of Computer Engineering, Technological Educational Institute of Epirus (28/2/2013 – 10/2017)
- Assistant Professor, Dept of Computer Engineering, Technological Educational Institute of Epirus (20/3/2006 - 27/2/2013)
- Assistant Professor (with annual contract), Dept of Computer Science, University of Ioannina, Greece (10/2000 – 8/2004)
- Research & Development Consultant at Patras Science Park S.A. (body supervised by GSRT); Coordinator & Regional Content Manager of research & development projects (9/2004-9/2011)

- Postdoctoral Researcher-Research Fellow, Laboratory of Automation & Robotics (LAR), Dept. of Electrical & Computer Engineering, School of Engineering, University of Patras. (12/1999-3/2006)
- PhD student; Researcher on national & EU funded research projects; assisting participation in lectures & laboratory exercises instructor. Laboratory of Automation & Robotics (LAR), Dept. of Electrical & Computer Engineering, School of Engineering University of Patras (10/1994-12/1999)

7. ADMINISTRATIVE CAREER

- **Director of Post graduate Programme** “Informatics and Networks” Dept. of Informatics and Telecommunications, University of Ioannina (3/2016 - today)
- **Member of Education and Research Committee**, University of Ioannina (4/2019-Today)
- **Director of Laboratory of Knowledge and Intelligent Computing**, Dept. of Informatics and Telecommunications, University of Ioannina (<http://kic.uoi.gr>) (2008 - today)
- **Member of the Committee for Doctoral Studies**, Dept. of Informatics and Telecommunications, University of Ioannina (2019 - today)
- **Dean of Informatics and Telecommunications School**, University of Ioannina (10/2018-12/2018)
- **Dean of Technological Applications School**, Technological Educational Institute of Epirus, Greece (12/2017-9/2018)
- **Vice Chairman of the Council of Technological Educational Institute of Epirus, Greece** (9/2016-9/2017)
- **Vice president of Education and Research Committee**, Technological Educational Institute of Epirus, Greece (1/2014- 9/2014).
- **Member of Education and Research Committee**, Technological Educational Institute of Epirus, Greece (1/2012- 9/2014)
- **Deputy President, Dept of Computer Engineering**, Technological Educational Institute of Epirus, Greece (5/2014- 30/9/2014 & 6/2016-8/2016)
- **Head of Informatics Division**, Dept of Informatics and Telecommunications, Technological Educational Institute of Epirus, Greece (2010-2011)
- **Head of Telecommunications and Networks Division**, Dept of Informatics and Telecommunications, Technological Educational Institute of Epirus, Greece (2006-2007 & 2007-2008 & 2012-2013)

8. RESEARCH EXPERIENCE

8.1 . *University of Ioannina (2006-today)*

8.1.1 *Research Coordinator (Laboratory of Knowledge and Intelligent Computing)*

1. **Practical Learning of Artificial iNtelligence on the Edge for indusTry 4.0 (PLANET4) Πρόγραμμα Erasmus + Project number – 621639-EPP-1-2020-1-IT-EPPKA2-KA (1/11/2020-30/10/2023) (Lab Budget 96.476 Euros)**
2. **«embeddiNg kEts and Works based learning into MEchaTRONic profile», (NEW METRO) Πρόγραμμα Erasmus + (1/12/2018-30/11/2021) (Lab Budget 77.038 Euros)**
3. **GIENAHS - Grasping Innovation in Europe through a closer iNterAction between Heis and Smes (Erasmus+) KIC-Lab analyzes methods for the interaction HEIs/SMEs, comparing strengths and best practices. Moreover, training and mentoring tools are defined and it is described a new path for designing Industrial Ph.D. while the structure of an e-learning platform will be elaborated. www.gienahs.eu (1/1/2018-31/12/2020) (Lab Budget 96.950 Euros)**
4. **TIPHYS 4.0 -Social Network based doctoral Education on Industry 4.0 (Erasmus+). KIC-Lab investigates and develops an open access platform, which consists a decision support module and creates a Virtual Educational Environment for Industry 4.0. www.tiphys.eu (1/9/2017-31/12/2020) (Lab Budget 48.680 Euros)**
5. **HERMES – Heritage Rehabilitation as Multiplier cultural Empowerment within Social contest (INTERREG Greece-Italy). KIC-Lab creates a geo-localized map and an E-Platform depicting cultural routes designed as virtual pathways. ICT technology is applied to create a virtual reality showplace along with an augmentative reality environment. (29/5/2019-28/5/2020) (Lab Budget 345.322 Euros)**
6. **Support stakeholders tackle strategic innovation in tourism in peripheral, remote and sparsely populated areas with resilient heritage offers and place based investments in the Cultural and Creative Industries (SMARTIMONY) Transnational Programme Greece-Albania (1/12/2019-30/11/2021) (Lab Budget 268.569 Euros)**
7. **INTER-PASS, Intermodal Passengers Connectivity between Ports and Airports. (Adriatic-Ionian programme) The KIC-Lab investigates and Identifies adaptable solutions for intermodal connections between ports and airports in the Adriatic–Ionian Region www.adrioninterreg.eu (1/1/2018-31/12/2020) (Lab Budget 107.907 Euros)**
8. **QNeST – Quality Network for Sustainable Tourism (Adriatic-Ionian programme). KIC-Lab creates a multimedia platform able to provide social networking tools so that to promote and fulfill the economic potential of the common and exceptional features of the cultural, traditional and environmental heritage of the Adriatic-Ionian area. www.qnest.eu (1/1/2018-31/12/2020) (Lab Budget : 178.392 Euros)**
9. **ECOPORTIL - Environmental Protection of Areas Surrounding Ports using Innovative Learning Tools for Legislation (INTERREG Balkan Mediterranean). KIC-Lab coordinates this project, it designs and develops a WebGIS application long with an e-learning platform for educational and training on environmental issues for the Balkan-MED coastal zones around port areas. www.ecoportil.eu (1/11/2017-30/10/20120). (Lab Budget 195.262 Euros)**
10. **Integrated information system for flood events monitoring, management and early warning in the wider area of Arachthos. (Region of Epirus OP 2014-2020). KIC-Lab designs and develops an Intelligent Information System for monitoring and early warning on the risk of floods of Arachthos river. A Web-GIS is developed along with a Decision Support System for monitoring and decision-making in case of flood events. (1/4/2017-31/12/2020) (Lab Budget 203.738 Euros)**
11. **BalkanMed INNOVA – Balkan- Mediterranean Centre for Entrepreneurship and Innovation (INTERREG Balkan-Mediterranean). KIC-Lab is responsible for defining the linking activities between education and business in order to stimulate entrepreneurial mindsets. KIC-Lab analyzes training needs in ICT, designs and performs ICT training course and tutoring services for the best business ideas and**

supports business plan competition rewards. www.balkanmed-innova.eu (24/7/2017-30/10/2020) (*Lab Budget 244.549 Euros*)

12. **TrackMyHealth- Integrated Support System for the elderly and people with health problems with the use of Portable Devices and Algorithms of Machine Learning** (Region of Epirus OP 2014-2020). KIC designs an innovative application for smart phones and an E-Platform utilizing advanced technological solutions in the field of monitoring and assessment of elderly hearth conditions. (24/9/2018-23/1/2022), (*Lab Budget 146.127 Euros*).
13. **EUKREAS – Advanced traceability of Epirus meat to improve productivity, quality and hygiene by using Business Intelligence Systems** (Region of Epirus OP 2014-2020). KIC-Lab creates a platform serving as an integrated system for the collection and processing of data including all the supply chain of meat and meat products able to provide the consumer all the relative data through the production and distribution chain <http://kic.uoi.gr> (24/9/2018-23/1/2022), (*Lab Budget 108.800 Euros*)
14. **ICT - FoodAware – Modern kiwi quality assessment system, traceability of kiwi products and intelligent supply chain management based on advanced IT applications** (Region of Epirus OP 2014-2020). KIC-Lab is responsible for the development of an integrated system for the traceability of kiwi products based on advanced information and communication technologies such as Internet of Things (IoT) able to provide the consumer all the production (24/9/2018-23/1/2022), (*Lab Budget 57.614 Euros*)
15. **RE.CO.RD - REcycling Strategies for the COastal Sustainable Waste Management towards R&D Innovation** (INTERREG Greece-Italy). KIC-Lab with the use of ICT tools will introduce new recycling technologies, and will design & promote environmental actions based on innovation and the involvement of the local population in recycling aiming to the reduction of the plastic waste and sustainable coastal management. (1/5/2018-30/3/2021) (*Lab Budget 233.955 Euros*).
16. **iSECRET - "Implementation of Software Engineering Competence Remote Evaluation for Master Program Graduates"** (Erasmus+); (*Completed*). It described the Learning Outcomes in terms of e-CF competences for Software Engineering positions; designed and developed an Open Educational Portal for Master courses LO evaluation (<http://moodle.kic.uoi.gr/>) (1/9/2015-30/8/2017) (*Lab Budget 43.000 Euros*)
17. **SAIL- ICT System Addressed to Integrated Logistic management and decision support for intermodal port and dry port facilities** (Seventh Framework Programme –Marie Curie FP7); (*Completed*). The project developed an integrated ICT tool able to support logistic chain of goods flow and all business operations provided between port of Trieste and dry port area. The SAIL project developed a Decision Support System and a Discrete Event Simulation to support the management of port intermodal facilities in a European context. (15/11/2010-14/11/2014) (*Lab Budget 225.900 Ευρώ*)
18. **CaseMaker: Innovative ICT-platform to enhance case-based teaching and learning LIFELONG LEARNING PROGRAMME (LLP)**. (*Completed*). CaseMaker was a transversal project aiming to promote new learning and teaching practices in higher education using an open source web-based ICT-platform specifically designed to enhance case-based teaching and learning www.casemaker.dk 1/1/2013-31/12/2015 (*Lab Budget 64.900 Euros*)
19. **Intelligent System for Automatic CardioTocoGrafic Data Analysis and Evaluation using State of the Art Computational Intelligence Technique**. (Bilateral R&D Cooperation Greece-Czech Republic; The project aimed to examine and propose new methodologies for the analysis, processing, feature extraction and categorization of CTG data, so that to propose a general methodology for the design and development of an intelligent system for the automatic analysis and evaluation of CTG data (*Lab Budget 15.000 Euros (15/6/2012-14/8/2014)*).
20. **«INNOVA NET -International Centre of Knowledge and Innovation in Mediteranean Countries»** (INTERREG Greece-Italy 2007-2013. (1/8/2011-16/4/2014) (*Lab Budget 187.500 Euros*)
21. **TEN ECOPORT - Transnational ENhancement of ECOPORT8 network** (SEE Transnational Cooperation Programme; (*Completed*). It stimulates an integrated policy on environmental protection and growth of Trans-European Network corridors. An intelligent environmental port management and information system was developed using integrated technologies for environmental risk protection in order to reduce impacts on human health, biodiversity and other environmental aspects. www.tenecoport.eu(1/10/2012-31/12/2014) (*Lab Budget 218.000 Euros*)

22. **APC - The Adriatic Port Community** (IPA Adriatic); (*Completed*). The project developed an IT system for the exchange of information among ports, based on the single-window principle. It achieved to speed up the administrative procedures related to ship arrivals & departures, improving this way the effectiveness and the competitiveness of the involved ports. (1/4/2011-30/6/2013) (*Lab Budget 300.000 Euros*)
23. «**Metagnosis : A tool for optimal utilization of research and technological results and Technology Transfer and Innovation in Region of Western Greece**» Regional Innovation Pole of Western Greece, General Secretariat of Research and Technology, GSRT (1/11/2006-15/12/2008) (*Lab Budget 79.400 Euros*)
24. **SFINX – Geographical Information System (G.I.S.) for an effective prevention and management of natural disasters**; INTERREG IIIA GREECE-ITALY; (*Completed*).SFINX delivered an integrated system based on GIS for the prediction & risk management of floods combined with an Expert System that utilized human experience-expertise for the development and operation of an advanced Decision Support System. SFINX aimed to improve Detection, Assessment and Risk Management for the effective mitigation and disaster restoration procedures and the provision of information. (25/3/2006-8/6/2006 & 1/12/2006-30/9/2008) (*Lab Budget 66.000 Euros*)
25. «**INNOVA – Integrated activities for Innovation Transfer in Strategic Sectors**» INTERREG IIIA Greece-Italy 2000-2006» (25/3/2006-8/6/2006 & 1/12/2006-30/9/2008) (*Lab Budget 209.000 Euros*)
26. **DRYSTONE ROUTES – A network for sustainability and promotion of the drystone heritage in Zagori and Salento**; INTERREG IIIA GREECE-ITALY; (*Completed*). KIC-Lab digitalized cultural elements, it designed and developed a webportal and a webGIS application to promote common historical and cultural environment. (25/3/2006-8/6/2006 & 1/12/2006-30/9/2008) (*Lab Budget 63.000 Ευρώ*)
27. **MOTHER - Mother Language over the History**; INTERREG IIIA GREECE-ITALY. It traced women’s role in the local territory during ancient and modern history, it created a network of cultural elements that supported sustainable tourism using ICT. www.womanway.eu (25/3/2006-8/6/2006 & 1/12/2006-30/9/2008) (*Lab Budget 107.200 Ευρώ*).

8.2 Computer Technology Institute and press “Diophantus” (2011-today)

8.2.1 Research Coordinator

1. “**Virtual reality Simulator for Training Against Fires**” RIS of Western Greece. (1/1/2019-31/12/2020) (*Budget 46.800 Euros*)
2. «**Developing a modern system of advanced traceability of the Kozani meat to improve productive performance, quality and hygiene using intelligent information systems (Ko-Meat IT)**», RIS of Western Macedonia (9/7/2020-8/7/2022), (*Budget 124.664 Euros*)
3. “**Lean Innovative connected vessels Lincoln**” Πρόγραμμα Horizon 2020-BG-2016. (1/10/2016-30/9/2019) (*Budget 272.900 Euros*)
4. “**Open Social Innovation policies driven by cocreative**” Interreg Europe. (1/5/2016-30/9/2020) (*Budget 232.000 Euros*)
5. «**pAssenger and loGistics Information Exchange System ARGESç**» Interreg Greece-Italy. (1/11/2013-30/9/2014) (*Budget 280.000 Euros*)
6. «**GAIA-Generalized Automatic exchange of port Information Area**» Interreg Greece-Italy. (1/11/2011-31/8/2014) (*Budget 130.000 Euros*)
7. «**MED Technopolis**» Interreg Programme MED (1/9/2011-31/5/2013), *Budget: 163.000 Euros*

8.3 Patras Science Park (2004-2011)

8.3.1 Research Coordinator

1. «**Mainstreaming INnovative Instruments for SME development in Europe- MINI EUROPE**» Interreg IVC (1/9/2009-30/9/2011), **Budget: 238.400 Euros**
2. «**Environmental Management of Transnational Ports Corridors**» Interreg Programme South East Europe SEE (1/3/2009-28/2/2012), **Budget 236.000 Euros**
3. «**Creation and Development of Innovation Pole in Western Greece**» (**Budget 100.000 Euros**)

8.4 Member of Networks

- IMS Intelligent Manufacturing Systems Network of Excellence (<http://www.ims-noe.org/>) (2002-2006)
- PLANET Network of Excellence on Artificial Intelligence Planning and Scheduling (<http://www.planet-noe.org>) (2001-2004)
- MONET Network of Excellence in Model Based Systems and Qualitative Reasoning (MBS & QR): Artificial Intelligence into Industry. <http://monet.aber.ac.uk> (2003-2004)
- EUNITE European Network of Excellence on Intelligent Technologies for Smart Adaptive Systems (<http://www.eunite.org/>) (2001-2004)

9. TEACHING EXPERIENCE

9.1 POST GRADUATE COURSES

Dept. of Informatics and Telecommunications, University of Ioannina

- *Algorithms and Advanced Data Structures*, (winter semester 2018-2019, winter semester 2019-2020, winter semester 2020-2021)
- *Big Data* (spring semester 2017-2018 & spring semester 2018-2019 & 2019-2020)
- *Cryptography and Computer Systems Security* (spring semester 2018-2019)
- *Computer Security* (spring semester 2016-2017, spring semester εξάμηνο 2017-2018)

9.2 UNDER GRADUATED COURSES

Dept. of Informatics and Telecommunications, University of Ioannina

- *Data Structures and Algorithms*, (2006 – 2014 & 2015-today)
- *Artificial Intelligence* (2006 – 2014 & 2015-today)
- *Data Mining* (2006 – 2014 & 2015-2019)
- *Expert Systems* (2006 –2014 & 2015-today)
- *Graphics* (2012- 2014)
- *Decision Support Systems* (2013- 2015)
- *Bio Informatics* (2012 - 2013)

Computer Science Department, University of Ioannina (Adjust Associate Professor)

- «*Digital Communications*» (2000-2001, 2001-2002 και 2002-2003.
- «*Digital Design*» (2000-2001, 2001-2002, 2003-2004)
- «*Expert Systems*» (2002-2003 και 2003-2004))

10. SCIENTIFIC ACTIVITIES

10.1 Member of Technical Committee

- TC 5.4 Large Scale Complex Systems, International Federation of Automatic Control - Technical Committees <http://tc.ifac-control.org/5/4/members> (2004-today).
- TC 9.5 Technology, Culture and International Stability (TECIS) International Federation of Automatic Control - Technical Committees <https://tc.ifac-control.org/9/5> (2018-today).
- TC 20 Technical committee on Pattern Recognition for Bioinformatics (2013-today).
- TC 8.2 Biological and Medical Systems, International Federation of Automatic Control - Technical Committees <http://tc.ifac-control.org/8/2/members> (2010-2014).

10.2 Guest Editor

Special issue of journal "*Studies in Informatics and Control*" (2002), Vol. 11, No1.

10.3 Workshop & Special Session

- Co-organizer of Special Session “Decision Support Systems based on Soft Computing techniques” IEEE International Conference on Systems, Man and Cybernetics (SMC’19). October 6-9, 2019, Bari, Italy. <http://smc2019.org/>
- Co-organizer Special Session “Maritime 4.0” στα πλαίσια του IEEE International Conference on Systems, Man and Cybernetics (SMC’19). October 6-9, 2019, Bari, Italy. <http://smc2019.org/>
- Co-organizer Special Session “Extremal Routing Problems: Models, Algorithms, Bounds, and Industrial Applications” στα πλαίσια του 9th *IFAC Conference on Manufacturing Modeling, Management and Control (MIM 2019)*. August 28-30, 2019, Berlin, Germany. <https://blog.hwr-berlin.de/mim2019/>
- Co-organizer Special Session “Novel Methods and Technological Advances for Environmental Sustainable Development” στα πλαίσια του 8th International Federation of Automatic Control Conference on Technology Culture & International Stability” 13-15 September 2018, Baku, Azerbaijan. <https://tecis18.org/>
- Co-organizer Special Session “Simulation Approaches in Logistics Systems” στα πλαίσια του 28th *European Modeling & Simulation Symposium (EMSS 2016)*. September 26-28, 2016, Larnaca, Cyprus.
- Co-organizer Special Session “Optimization techniques for manufacturing process and mainly cutting machines” στα πλαίσια του MIM 2016, 8th International IFAC Conference on Manufacturing Modelling, Management and Control, June 28-30, 2016, France <http://mim2016.utt.fr/>
- Co-organizer Special Session “Fuzzy Logic Applications in Construction Engineering and Management” στα πλαίσια του 35th Annual Conference of the North American Fuzzy Information Processing Society NAFIPS’2016, October 31-November 4, 2016, El Paso, USA
- Co-organizer Special Session “New trends and approaches for Fuzzy Cognitive Maps theory” στα πλαίσια του *IEEE International Conference on Fuzzy Systems FUZZ-IEEE 2015*, August 2-5, 2015, Istanbul, Turkey.
- Co-organizer Special Session “Fuzzy Logic Applications in Construction Engineering and Management” στα πλαίσια του 34th *Annual Conference of the North American Fuzzy Information Processing Society NAFIPS’2015*, 17-19 August 2015, Redmond, Washington, USA.
- Co-organizer Special Session “Simulation Approaches in Logistics Systems” στα πλαίσια του 25th *EMSS 2013: 25th European Modelling and Simulation Symposium*, 25-27 September, 2013, Athens, Greece
- Co-organizer Special Session “Simulation Approaches in Logistics Systems” στα πλαίσια του 24th *European Modelling and Simulation Symposium*, 19-21 September, 2012, Vienna, Austria..
- Organizer Special Session “Freight Transportation and Logistics: New Trends and Methodologies” στα πλαίσια του 7th *IEEE Conference on Automation Science and Engineering CASE 2011*. August 24-27, 2011, Trieste, Italy
- Organizer Tutorial Session: «ICT System addressed to Integrated Logistic Management and Decision Support for Intermodal Port and Dry port facilities” στα πλαίσια του 7th *IEEE Conference on Automation Science and Engineering CASE 2011*. August 24-27, 2011, Trieste, Italy.

10.4 International Programme Committee Member

- The 21st IFIP Working Conference on Virtual Enterprises, PRO-VE’ 20 “Collaborative Networks and Digital Transformation”, Valencia, Spain, 14-16 September 2020, <http://www.pro-ve.org/>
- 11th Hellenic Conference on Artificial Intelligence, SETN 2020, Athens, Greece, 2-4 September 2020, <http://www.eetn.gr/index.php/setn-2020-home>

- The 20th IFIP Working Conference on Virtual Enterprises, PRO-VE'19 “Collaborative Networks and Digital Transformation”, Torino, Italy, 23-25 September 2019, <http://www.pro-ve.org/>
- 15th IFAC Symposium on Large Scale Complex Systems: Thoery and Applications, May 26-28, 2019, Delft, The Netherlands. <https://sites.google.com/view/ifaclss19>
- The 2018 International Conference on Fuzzy Systems (FUZZ-IEEE 2018, Rio De Janeiro, Brazil, 8-13 July 2018, <http://www.ecomp.poli.br/~wcci2018/>
- The 19th IFIP Working Conference on Virtual Enterprises, PRO-VE'18 “Collaborative Networks of Cognitive Systems”, Cardiff, UK, 17-19 September 2018, <http://www.pro-ve.org/>
- The 18th IFIP Working Conference on Virtual Enterprises, PRO-VE'17 “Collaboration in a Data-Rich World”, Vicenza, Italy, 18-20 September 2017, <http://www.pro-ve.org/>
- 2016 IEEE Symposium on Robotic Intelligence in Informationally structured Space (IEEE RiiSS'16) <http://ssci2016.cs.surrey.ac.uk/RiiSS.htm> IEEE Symposiumm Series on Computational Intelligence (SSCI 2016), December 6-9, 2016, Athens, Greece.
- The 17th IFIP Working Conference on Virtual Enterprises, PRO-VE'16 “Collaboration in a Hyperconnected World”, Porto, Portugal, 3-5 October 2016, <http://www.pro-ve.org/>
- 10th International Conference on Pattern Recognition in Bioinformatics (PRIB 2016) canccun, Mexico, 1-3 December 2016 <http://prib-2016.cicese.mx/>
- 28th European Modeling & Simulation Symposium (EMSS 2016) September 2016, Cyprus http://www.msc-les.org/conf/emss2016/index_file/EMSS_Tracks.htm
- 14th IFAC Symposium on Large Scale Systems: Theory and Applications (LSS2016), May 31st-June 3rd, 2016, Riverside, California USA, <http://www.ee.ucr.edu/~ren/lss16>
- 9th Hellenic Conference on Artificial Intelligence, SETN2016, May 18-20, 2016, Thessaloniki, Greece. <http://setn2016.csd.auth.gr>
- Inter-Higher School Scientific and Educational Conference, Actual problems of Education, MIP 2016, 26-27 February 2016, Riga, Latvia. <http://www.tsi.lv/en/content/mip-2015>
- Towards Emerging Technology for Harbour sYstems and Services (TETHYS 2015), 14-15 December 2015, Bari, Italy, <http://sisinflab.poliba.it/tethys2015/index.html>.
- 2015 IEEE Symposium on Robotic Intelligence in Informationally structured Space (IEEE RiiSS'15) <http://iee-ssci.org.za:8080/RiiSS> IEEE Symposiumm Series on Computaional Intelligence (SSCI 2015), December 7-10, 2015, Cape Town, South Africa.
- The 4th International Conference on Intelligent Systems and Applications INTELLI 2015, October 11-16, 2015, St. Julians, Malta. <http://www.iaria.org/conferences2015/ComINTELLI15.html>
- The 16th IFIP Working Conference on Virtual Enterprises, PRO-VE'15 “Risks and Resilience of Collaborative Networks”, Albi, France, 5-7 Oct 2015, <http://www.pro-ve.org/>
- The 15th IFIP Working Conference on Virtual Enterprises, PRO-VE'14 “Collaborative Systems for Smart Networked Environments”, Amsterdam, Netherlands, 6-8 Oct 2014, <http://www.pro-ve.org/>
- The 2013 IEEE/WIC/ACM International Conference on Web Intelligence WI2013, November 17-20, 2013, Atlanta, GA, USA, <http://www.cs.gsu.edu/wic2013/wi>
- 8th International Conference on Soft Computing Models in Industrial and Environmental Applications, Salamanca, Spain, 11th-13th September 2013. <http://soco13.usal.es>
- The 14th IFIP Working Conference on Virtual Enterprises, PRO-VE'13, Dresden, Germany 30 Septmber-2 October 2013 <http://www.pro-ve.org/>
- The 10th International meeting on Computatinal Intelligence Methods for Bioinformatics and Biostatics and PRIB 2013, the 8th IAPR International Conference on Pattern Recognition in Bioinformatcs, Nice, France, June 17-22, 2013.

- 13th IFAC Symposium on Large Scale Systems: Theory and Applications (LSS2013), July 7-10, 2013, Shanghai, China (<http://lss2013.sjtu.edu.cn/com.html>)
- The 2012 IEEE/WIC/ACM International Conference on Web Intelligence WI2012, December 4-7, 2012, Macau, <http://www.fst.umac.mo/wic2012/WI/>
- The 13th IFIP Working Conference on Virtual Enterprises, PRO-VE'12, Bournemouth, UK, 1-3 October 2012 <http://www.pro-ve.org/>
- 7th International Conference on Soft Computing Models in Industrial and Environmental Applications, SOCO 2012, 5th-8th September, 2012 Ostrava (Czech Republic) <http://soco.usal.es/>
- The 12th IFIP Working Conference on Virtual Enterprises, PRO-VE'11, Sao Paulo, Brazil, 17-19 October 2011 <http://www.pro-ve.org/>
- The 13th International Workshop on Computer Science and Information Technology CSIT'2011, 27th September – 2nd October 2011 in Garmisch-Partenkirchen, Germany (<http://csit.ugatu.ac.ru/>).
- The 11th IFIP Working Conference on Virtual Enterprises, PRO-VE'10, Saint- Etienne, France, 11-13 October 2010 <http://www.uninova.pt/~prove09/>
- The 5th International Conference on Management and Control of Production and Logistics IFAC MCPL, University of Coimbra, Portugal, September 8-10, 2010. <http://mcpl2010.uc.pt/>
- The 11th International Workshop on Computer Science and Information Technology CSIT'2009, October 5-8, 2009 in Crete, Greece (<http://csit.ugatu.ac.ru/>).
- The 2007 IEEE/WIC/ACM International Conference on Web Intelligence WI07, November 2-5, 2007, Silicon Valley, USA <http://www.cs.sjsu.edu/wi07/wi/>
- 11th IFAC Symposium on Large Scale Systems: Theory and Applications (LSS2007), July 23-25, 2007, Gdansk, Poland (<http://www.ely.pg.gda.pl/lss2007/>)
- The 2006 IEEE/WIC/ACM International Joint Conference on Web Intelligence WI2006, December 18-22, 2006, Hong Kong, <http://www.comp.hkbu.edu.hk/iwi06/wi/>
- 1st IFAC Workshop on Applications of Large Scale Industrial Systems (ALSIS'06) August 30-31, 2006, Helsinki/Stockholm, Finland.
- The 2005 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI/IAT 2005), September 19-22, 2005, in Compiègne University of Technology, France, <http://www.hds.utc.fr/WI05/>
- The international workshop on Modeling and Applied Simulation MAS 2004, October 28-30, 2004, Genoa, Italy, www.liophant.org/mas2004/
- The 6th International Workshop on Computer Science and Information Technology CSIT'04, October 17-19, 2004, Budapest, Hungary (<http://csit.ugatu.ac.ru/>).
- 10th IFAC Symposium on Large Scale Systems: Theory and Applications (LSS2004), July 26-28, 2004, Osaka, Japan (www-watt.mech.eng.osaka-u.ac.jp/lss2004/)
- The 5th International Workshop on Computer Science and Information Technology CSIT'03, September 16-18, 2003 in Ufa, Bashkortostan, Russia (<http://csit.ugatu.ac.ru/>).
- The 4th International Workshop on Computer Science and Information Technology CSIT'02, September 18-20, 2002, University of Patras, Rio, Greece. (www.lar.ee.upatras.gr/csit2002/)

10.5 Reviewer of Journals

- Applied Artificial Intelligence: An International Journal
- Applied Soft Computing
- Artificial Intelligence in Medicine
- Biosignal Processing and Control

- Computers in Biology and Medicine: an International Journal
- Computer Methods and programs in Biomedicine.
- Decision Support Systems
- Evolving Systems
- Fuzzy Set and Systems
- Journal of Applied Logic
- Journal of Biomedical Informatics
- EURASIP Journal on Advances in Signal Processing
- IEEE Engineering in Medicine and Biology Magazine
- IEEE Transactions on Biomedical Engineering
- IEEE Transactions on Fuzzy Systems
- IEEE Transactions on Systems, Man, Cybernetics: Part B
- IEICE Transactions on Information and Systems
- IET signal processing
- Information Sciences
- International Journal on Artificial Intelligence Tools: Algorithms, Languages, Algorithms (IJAIT)
- International Journal of Production Research
- Medical & Biological Engineering and Computing
- Technovation
- The Computer Journal

Reviewer of International Conferences

- 42nd Annual International Conference of IEEE Engineering in Medicine and Biology Society July 20-24, 2020, Toronto, Canada <https://embc.embs.org/2020/>
- The 20th IFIP Working Conference on Virtual Enterprises, PRO-VE'18 "Collaborative Networks and Digital Transformation", Torino, Italy, 23-25 September 2019, <http://www.pro-ve.org/>
- The 9th IFAC Conference on Manufacturing Modeling, Management and Control (MIM 2019). August 28-30, 2019, Berlin, Germany <https://blog.hwr-berlin.de/mim2019/>
- Manufacturing 2019, , 19- 22 May 2019, Poznan, Poland.
- 15th IFAC Symposium on Large Scale Complex Systems: Theory and Applications, May 26-28, 2019, Delft, The Netherlands. <https://sites.google.com/view/ifac15s19>
- The 19th IFIP Working Conference on Virtual Enterprises, PRO-VE'18 "Collaborative Networks of Cognitive Systems", Cardiff, UK, 17-19 September 2018, <http://www.pro-ve.org/>
- 29th IEEE International Conference on Tools with Artificial Intelligence, ICTAI 2017, November 6-9, 2017, Boston, MA, USA <http://ictai2017.org/>
- The 18th IFIP Working Conference on Virtual Enterprises, PRO-VE'17 "Collaboration in a Data-Rich World", Vicenza, Italy, 18-20 September 2017, <http://www.pro-ve.org/>
- The 17th IFIP Working Conference on Virtual Enterprises, PRO-VE'16 "Collaboration in a Hyperconnected World", Porto, Portugal, 3-5 October 2016, <http://www.pro-ve.org/>
- IEEE World Congress on Computational Intelligence, IEEE WCCI 2016, July 24-29, 2016 Vancouver, Canada, <http://wcci2016.org/>
- MIM 2016, Conference on Manufacturing Modelling, Management and Control, June 28-30, 2016, France <http://mim2016.utt.fr/>
- 9th Hellenic Conference on Artificial Intelligence, SETN2016, May 18-20, 2016, Thessaloniki, Greece. <http://setn2016.csd.auth.gr>

- Casting Workshop at European Joint Conference on Theory and Practice of Software ETAPS, 2-3 April 2016, Eindhoven, Netherlands
- BHI-2016 IEEE International Conference on Biomedical and Health Informatics, 24-27th February 2016, Las Vegas, USA. <http://bhi.embs.org/2016/>
- The 4th International Conference on Intelligent Systems and Applications INTELLI 2015, October 11-16, 2015, St. Julians, Malta. <http://www.iaria.org/conferences2015/ComINTELLI15.html>
- The 16th IFIP Working Conference on Virtual Enterprises, PRO-VE'15 "Risks and Resilience of Collaborative Networks", Albi, France, 5-7 Oct 2015, <http://www.pro-ve.org/>
- The 27th European Modeling & Simulation Symposium EMSS, September 21-23, 2015, Bergeggi, Italy <http://www.msc-les.org/conf/emss2015/>
- 37th Annual International Conference of IEEE Engineering in Medicine and Biology Society August 25-29, 2015, Milano, Italy <http://embc.embs.org/2015>
- 9th IFAC Symposium on Biological and Medical Systems, 31st August-2nd September 2015, Berlin, Germany <http://www.bms2015.org/>
- FUZZ-IEEE 2015 IEEE International Conference on Fuzzy Systems August 2-5, 2015, Istanbul, Turkey, <http://fuzzieee2015.org/>
- 15th IFAC Symposium "Information control Problems in Manufacturing" INCOM'15, Ottawa, Canada, May 11-13, 2015
- 36th Annual International Conference of IEEE Engineering in Medicine and Biology Society August 26-30, 2014, Chicago, Usa <http://embc.embs.org/2014>
- 35th Annual International Conference of IEEE Engineering in Medicine and Biology Society July 3-7, 2013, Osaka, Japan <http://embc2013.embs.org/>
- 13th IFAC Symposium on Large Scale Systems: Theory and Applications (LSS2013), July 7-10, 2013, Shanghai, China (<http://lss2013.sjtu.edu.cn/com.html>)
- The 10th International meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics and PRIB 2013, the 8th IAPR International Conference on Pattern Recognition in Bioinformatics, Nice, France, June 17-22, 2013.
- IEEE Symposium Series on Computational Intelligence 2013, April 15-19, 2013, Singapore http://www.ntu.edu.sg/home/epnsugan/index_files/SSCI2013/
- 2013 IEEE International Conference on Fuzzy Systems July 7-10, 2013 Hyderabad, India. <http://www.isical.ac.in/~fuzzieee2013/>
- The 24th European Modeling & Simulation Symposium EMSS, September 19-21, 2012, Vienna, Austria <http://www.msc-les.org/conf/emss2012/>
- 14th IFAC Symposium "Information control Problems in Manufacturing" INCOM'12, Bucharest, Romania, May 23-25, 2012
- 2012 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2012), Brisbane, Australia, 10-15 June 2012. <http://www.ieee-wccci2012.org>
- The 12th IFIP Working Conference on Virtual Enterprises, PRO-VE'11, Sao Paulo, Brazil, 17-19 October 2011 <http://www.pro-ve.org/>
- The 7th IEEE Conference on Automation Science and Engineering (CASE 2011), August 24-27, 2011, Trieste, Italy. <http://www.deei.units.it/CASE2011/>
- 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011), 27-30 June 2011, Taipei, Taiwan. <http://fuzzieee2011.nutn.edu.tw/index.htm>
- The 11th IFIP Working Conference on Virtual Enterprises, PRO-VE'10, Saint- Etienne, France, 11-13 October 2010 <http://www.uninova.pt/~prove09/>

- The 5th International Conference on Management and Control of Production and Logistics IFAC MCPL, University of Coimbra, Portugal, September 8-10, 2010. <http://mcpl2010.uc.pt/>
- The IEEE International Conference on Fuzzy Systems, 18-23 July 2010, Barcelona, Spain, Fuzz-IEEE 2010
- 10th IFAC Symposium on Large Scale Systems: Theory and Applications (LSS2004), July 26-28, 2004, Osaka, Japan.
- European Control Conference ECC'03, 1-4 September, University of Cambridge, UK.
- The 5th International Workshop on Computer Science and Information Technology CSIT'03, September 16-18, 2003 in Ufa, Bashkortostan, Russia
- The 4th International Workshop on Computer Science and Information Technology CSIT'02, September 18-20, 2002, University of Patras, Rio, Greece.
- First International Workshop on Intelligent Knowledge Management Techniques, IKOMAT'02, 16 -18 September 2002, Podere d'Ombriano, Crema, Italy.
- 15th IFAC World Congress, Barcelona, Spain July 21-26, 2002.
- 2nd Hellenic Conference on Artificial Intelligence, 10-12 April, 2002 Thessaloniki, Greece.
- IFAC Symposium on Manufacturing, Modeling, Management and Control, July 12-14, 2000, University of Patras, Rio, Greece
- 8th IEEE Mediterranean Conference on Control & Automation, July 17-19, 2000, University of Patras, Rio, Greece.
- 15th IEEE International Symposium on Intelligent Control, ISIC 2000, July 17-19, 2000, University of Patras, Rio, Greece.

10.6 Participation in International Conference

- The 20th IFIP Working Conference on Virtual Enterprises, PRO-VE'18 “Collaborative Networks and Digital Transformation”, Torino, Italy, 23-25 September 2019, <http://www.pro-ve.org/>
- Manufacturing 2019, , 19- 22 May 2019, Poszan, Poland.
- The 20th IFIP Working Conference on Virtual Enterprises, PRO-VE'18 “Collaborative Networks and Digital Transformation”, Torino, Italy, 23-25 September 2019, <http://www.pro-ve.org/>
- The 9th IFAC Conference on Manufacturing Modeling, Management and Control (MIM 2019). August 28-30, 2019, Berlin, Germany <https://blog.hwr-berlin.de/mim2019/>
- 9th IEEE International Conference on Intelligent Systems, Madeira, Portugal, 22-25 September 2018
- 18th International Federation of Automatic Control Conference on Technology Culture & International Stability” 13-15 September 2018, Baku, Azerbaijan.
- 2018 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE 2018, 8-13 July, Rio De Janeiro, Brasil
- Conference on Intelligent Computation in Manufacturing Engineering CIRP, 18-20 July 2018, Gulf of Naples, Italy
- 39th Annual International Conference of IEEE Engineering in Medicine and Biology, 11-15 July, 2017, Seogiwo, South Korea.
- 2016 IEEE Symposium Series on Computational Intelligence (SSCI), December 6-9, 2016 Athens.
- 2016 IEEE International Conference on Systems, Man and Cybernetics SMC2016, October 9-12, 2016, Budapest, Hungary.

- IEEE Intelligent Systems'2016, 3-5 September, Sofia, Bulgaria, 2016
- The 24th Mediterranean Conference on Control and Automation, June 21-24, 2016, Athens, Greece.
- 4th Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2016, 31st March- 2nd April 2016, Paphos, Cyprus.
- Workshop Towards Emerging Technology for Harbour Systems and Services (TETHYS 2015) Bari, Italy, December 14, 2015.
- Annual Conference of the North American Fuzzy Information Processing Society NAFIPS'2015, 17-19 August 2015, Redmond, Washington, USA.
- IEEE International Conference on Fuzzy Systems FUZZ-IEEE 2015, August 2-5, 2015, Istanbul, Turkey.
- 15th IFIP Working Conference on Virtual Enterprises PRO-VE 2014, October 6-8, 2014, Amsterdam, Netherlands
- 13th Mexican International Conference on Artificial Intelligence, MICAI 2014, 16-22 November 2014, Tuxtla Gutierrez, Chiapas, Mexico.
- IEEE Intelligent Systems IS'2014, 24-26 September, 2014, Warsaw, Poland
- 6th European Conference of the International Federation for Medical and Biological Engineering, MBEC 2014, 7-11 September 2014, Dubrovnik, Croatia
- 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society Chicago Hotel and Towers, August 26-30, 2014
- Workshop Towards Emerging Technology for Harbour Systems and Services (TETHYS 2014) July 15, 2014, Bari, Italy
- Workshop on "Information Technologies for Intelligent Decision Making Support", Ufa, Russia, 18-24, May, 2014.
- 8th Hellenic Conference on AI, SETN 2014, Ioannina, Greece, May 15-17, 2014;
- 25th European Modelling and Simulation Symposium, EMSS 2013, 25-27 September, 2013, Athens, Greece
- 4th International Conference on Information Technology in Bio- and Medical Informatics ITBAM 2013, Prague, Czech Republic, 26-30 August, 2013
- 8th conference of the European Society for Fuzzy Logic and Technology, EUSFLAT 2013, 11-13 September, 2013, Milano, Italy
- 3rd International Conference on Simulation and Modeling Methodologies, Technologies and Applications SIMULTECH 2013, 29-31 July, 2013, Reykjavik, Iceland.
- 13th IFAC Symposium on Large Scale Complex Systems: Theory and Applications, 7-10 July, 2013, Shanghai, China,
- The 24th European Modeling & Simulation Symposium EMSS, September 19-21, 2012, Vienna, Austria <http://www.msc-les.org/conf/emss2012/> (session organizer & session chair)
- 6th IEEE International Conference on Intelligent Systems IS'12, 6-8, 2012, September Sofia, Bulgaria.
- 8th IFAC Symposium on biological and Medical Systems, 29th August -31st August 2012, Budapest, Hungary.
- 18th IFAC World Congress, 28th August -2nd September 2011, Milano, Italy,
- The 7th IEEE Conference on Automation Science and Engineering (CASE 2011), August 24-27, 2011, Tieste, Italy. <http://www.deei.units.it/CASE2011/> (session co-chair)

- 19th [Mediterranean Conference on Control and Automation](#), MED 2011, 20-23 June 2011, Corfu, Greece. (session co-chair)
- 20th [International Conference on Artificial Neural](#), ICANN 2010, 15-18 September 2010, Thessaloniki, Greece
- The 32nd Annual International Conference of the IEEE EMBS EMBC'10, 31st August -4 September 2010, Buenos Aires, Argentina
- The 11th International Workshop on Computer Science and Information Technology CSIT'2009, October 5-8, 2009 in Crete, Greece
- International Joint Conference on Neural Networks, IJCNN 2009, Atlanta, Georgia, USA, June 14-19, 2009
- MATHMOD 2009 - 6th Vienna International Conference on Mathematical Modelling, Vienna 11-13 February 2009.
- IEEE World Congress on Computational Intelligence (WCCI 2008), Hong-Kong, 1-6 June 2008, China
- 29th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2007 August 23-26, 2007, Lyon, France
- World Congress on Medical Physics and Biomedical Engineering 2006, WC 2006 Congress, 27 August-1 September 2006, Seoul, Korea
- International Special Topic Conference on Information Technology in Biomedicine, ITAB 2006, Ioannina - Epirus, Greece, October 26-28, 2006
- 18th Biennial International EURASIP Conference, BIOSIGNAL 2006, 28-30 June 2006, Brno, Czech Republic,
- 3rd European Medical and Biomedical Engineering Conference-IFMBE European Conference on Biomedical Engineering, November 20-25, 2005, Prague, Czech Republic.
- BISCSE 2005 "Forging New Frontiers-40th of Fuzzy Pioneers (1965-2005)" November 2-5, 2005, University of California, Berkeley, Berkeley, California
- 16th IFAC World Congress (International Federation of Automatic Control), Prague, Czech Republic July 4-8, 2005.
- Intelligent Manufacturing Systems, IMS 2004, Como, Milano, Italy 17-19 May 2004
- 11th IEEE Mediterranean conference on Control and Automation, June 18-20, 2003, Rodos, Greece
- 7th IFAC Workshop on Intelligent Manufacturing systems, IMS2003, 6-8 April, 2003, Budapest, Hungary
- 4th International Workshop on Computer Science and Information Technology CSIT'02, September 18-20, 2002, University of Patras, Rio, Greece (session co-chairman).
- 15th IFAC World Congress (International Federation of Automatic Control), Barcelona, Spain July 21-26, 2002 (session co-chairman).
- 8th Int. Conference on Advances in Communications and Control, Rethymno, Greece 25-29/6/2001.
- Πανελλήνιο Συνέδριο Αυτοματισμού, Ρομποτικής και Βιομηχανικής Παραγωγής-Κτησίβιος» Σαντορίνη 28-30 Ιουνίου 2001
- IEEE International Symposium on Intelligent Control, ISIC 2000, Patras, Greece, July 17-19, 2000.
- IFAC International Symposium on Manufacturing, Modeling, Management and Control-MIM 2000, Patras, Greece, July 12-14, 2000. (session co-chairman).
- Advanced Summer Institute ASI2000, Bordeaux, France, September 18-20, 2000
- Intelligent Manufacturing Systems (IMS) Workshop, Roros, Norway, 24-26 January 2000.
- 2nd International Workshop on Intelligent Manufacturing Systems IMS'99, Leuven, September 22-25, 1999.

- 14th World Congress of IFAC (International Federation of Automatic Control), Beijing, China, July 5-9, 1999.
- Second AMETMAS-NOE Workshop, St. Petersburg, Russia, 27-28 May, 1999
- Intelligent Manufacturing Systems (IMS) Workshop, Edinburgh, U K, 14-16 April 1999.
- Intelligent Manufacturing Systems (IMS) Workshop, Nancy, France, 16-18 September 1998.
- 8th IFAC/IFORS/IMACS/IFIP-LSS'98, Symposium on Large Scale Systems: Theory and Applications, 15-17 July 1998, Patras, Greece
- Advanced Summer Institute ASI'98, Bremen, Germany, June 14-17, 1998.
- First AMETMAS-NOE Workshop, Sinaia, Romania, 8-9 May, 1998
- 1st Int. Workshop on Intelligent Manufacturing Systems, Lausanne, Switzerland, 15-17/4/1998.
- Intelligent Manufacturing Systems (IMS) Workshop, Porto, Portugal, 27-29 September 1997.
- Advanced Summer Institute ASI'97, Budapest, Hungary, July 14-18, 1997. (session co-chairman).
- Issues and Challenges of Manufacturing and Control Education for the 21st Century, Patras, Greece, June 26-28, 1997.
- European Symposium on Intelligent Techniques, Bari, Italy, March 19-21, 1997.
- Advanced Summer Institute ASI'94, Patras, Greece, June 26-30, 1994.

11.1 Theses

- [Δ1] Chrysostomos Stylios, **Modeling and Hierarchical Intelligent Control using Fuzzy Cognitive Map**. Ph.D Dissertation, Dept. Electrical and Compute Engineering, University of Patras, Greece, November 1999
- [Δ2] Chrysostomos Stylios, **Puzzle assembling using robot and camera**. Master Dissertation, Dept. Electrical and Computer Engineering, Aristotle University of Thessaloniki, 1992.

11.2 Books

- [B1] S. Kolios, S. Petsios and C. Stylios, **Port Community Systems**. (In Greek), ISBN 978-960-85817-6-4 (2013).
- [B2] S. Kolios, A. Vorobev, G. Vorobeva and C. Stylios, **GIS and Environmental Monitoring: Application in the Marine, Atmospheric and Geomagnetic Fields**, Springer ISBN 978-3-319-53084-0 (2017).

11.3 Edited Books

- [BI1] C.D. Stylios and P.P. Groumpos (Eds), **Integrated Information System for Natural Disaster Management: Methodologies, Approaches, Case Studies, Good Practices**. Patras Science Park, ISBN 978-960-85817-4-6 (2009).
- [BI2] C.D. Stylios, T. Floqi, J. Marinski, L. Damiani (Eds), **Sustainable Development of Sea-Corridors and Coastal Waters: The TEN ECOPORT project in South East Europe**. Springer, ISBN 978-3-319-11384-5 (2015).
- [BI3] Nigel Courtney, Christian Poulsen and Chrysostomos Stylios (Eds), **Case-Based Teaching and Learning for the 21st Century**. E-edition published in 2015 by Libri Publishing, ISBN 978 1 909818 57 6 (2015).

11.4 Journals

- [II1] C.D. Stylios and P.P. Groumpos, **The Challenge of modeling Supervisory Systems using Fuzzy Cognitive Maps**. *Journal of Intelligent Manufacturing*, Vol. 9, No. 4, pp. 339-345 (1998).
- [II2] C.D. Stylios and P.P. Groumpos, **Fuzzy Cognitive Maps: A model for Intelligent Supervisory Control Systems**. *Computers in Industry*, Vol. 39, No. 3, pp. 229-238 (1999).
- [II3] C.D. Stylios and P.P. Groumpos, **A Soft Computing Approach for Modelling the Supervisor of Manufacturing Systems**. *Journal of Intelligent and Robotics Systems*, Vol. 26, No. 3-4, pp. 389-403 (1999).
- [II4] C.D. Stylios and P.P. Groumpos, V.C. Georgopoulos, **Fuzzy Cognitive Map Approach to Process Control Systems**. *Journal of Advanced Computational Intelligence*, Vol. 3, No. 5, pp. 409-417 (1999).
- [II5] C.D. Stylios and P.P. Groumpos, **Fuzzy Cognitive Maps in Modeling Supervisory Control Systems**. *Journal of Intelligent & Fuzzy Systems*, Vol. 8, No. 2, pp. 83-98 (2000).
- [II6] P.P. Groumpos and C.D. Stylios, **Modeling supervisory control systems using fuzzy cognitive maps**. *Chaos, Solitons and Fractals*, Vol.11, No. 1-3, pp. 329-336 (2000).
- [II7] C. Stylios, G. Langer, B. Iung, Y.T. Hyun, C. Sorensen, M. Weck and P. Groumpos, **Discipline research contributions to the modelling and design of Intelligent Manufacturing systems**. *Studies in Informatics and Control*, Vol. 9, No. 2, pp. 111-132 (2000).

- [II8] V.C. Georgopoulos, G.A. Malandraki and C.D. Stylios, **A Fuzzy Cognitive Map Approach To Differential Diagnosis of Specific Language Impairment**. *Journal of Artificial Intelligence in Medicine* (IF: 1,224), Vol. 29, No. 3, pp. 261-278 (2003).
- [II9] E. Papageorgiou, C. Stylios and P. Groumpos, **An Integrated Two-level Hierarchical System for Decision Making in Radiation Therapy using Fuzzy Cognitive Maps**. *IEEE Transactions on Biomedical Engineering* (IF: 1,398), Vol. 50, No. 12, pp. 1326-1339 (2003).
- [II10] E. Papageorgiou, P. Spyridonos, C.D. Stylios, G. Nikiforidis and P. Groumpos, **Grading urinary bladder tumors using unsupervised Hebbian algorithm for Fuzzy Cognitive Maps**. *Biomedical Soft Computing and Human Sciences*, Vol. 9, No. 2, pp. 33-39 (2003).
- [II11] C.D. Stylios and P.P. Groumpos, **Modeling Complex Systems Using Fuzzy Cognitive Maps**. *IEEE Transactions on Systems, Man and Cybernetics: Part A Systems and Humans* (IF:0,555), Vol. 34, No. 1, pp. 155-162 (2004).
- [II12] E. Papageorgiou, C.D. Stylios and P. Groumpos, **Active Hebbian Learning Algorithm to train Fuzzy Cognitive Maps**, *International Journal of Approximate Reasoning* (IF:0,929), Vol. 37, pp. 219-249 (2004).
- [II13] E. Papageorgiou, K.E. Parsopoulos, C.D. Stylios, P.P. Groumpos and M.N. Vrahatis, **Fuzzy Cognitive Maps Learning Using Particle Swarm Optimization**. *Journal of Intelligent Information Systems* (IF:0,851), Vol. 25, No. 1, pp. 95-107 (2005).
- [II14] E. Papageorgiou, P. Spyridonos, C.D. Stylios, R. Ravazoula, P.P. Groumpos and G. Nikiforidis, **Advanced Soft Computing Diagnosis Method for Tumour Grading**. *Artificial Intelligence in Medicine* (IF:1,122), Vol. 36, No. 1, pp. 59-70 (2006).
- [II15] G. Georgoulas, C.D. Stylios and P.P. Groumpos, **Feature Extraction and Classification of Fetal Heart Rate Signals using Wavelet Analysis and Support Vector Machines**. *International Journal of Artificial Intelligent Tools*, Vol. 15, No. 3, pp. 411-432 (2006).
- [II16] G. Georgoulas, C.D. Stylios and P.P. Groumpos, **Predicting the risk of Metabolic Acidosis for Newborns based on Fetal Heart Rate Signal Classification using Support Vector Machines**. *IEEE Transactions on Biomedical Engineering*, Vol. 53, No. 5, pp. 875-884 (2006).
- [II17] E. Papageorgiou, C.D. Stylios and P. Groumpos, **Unsupervised Learning Techniques for Fine-Tuning Fuzzy Cognitive Map Causal Links**. *International Journal of Human Computer Studies*, Vol. 64, pp. 727-743 (2006).
- [II18] G. Georgoulas, D. Gavrilis, I. Tsoulos, C.D. Stylios, J. Bernardes and P.P. Groumpos, **Novel Approach for fetal heart rate classification introducing grammatical evolution**. *Biomedical Signal Processing and Control*, Vol. 2, pp. 69-79 (2007).
- [II19] E. Papageorgiou, P. Spyridonos, Th. Glotsos, C.D. Stylios, R. Ravazoula, G. Nikiforidis and P.P. Groumpos, **Brain tumor characterization using the soft computing technique of fuzzy cognitive maps**. *Applied Soft Computing*, Vol. 8, No. 1, pp. 820-828 (2008).
- [II20] C. Stylios, V. Georgopoulos, G. Malandraki, and S. Chouliara, **Fuzzy cognitive map architectures for medical decision support systems**. *Applied Soft Computing*, Vol. 8, pp. 1243-1251 (2008).
- [II21] V. Georgopoulos, and C. Stylios, **Complementary case-based reasoning and competitive Fuzzy cognitive maps for advanced medical decisions**. *Soft Computing*, Vol. 12, No. 2, pp. 191-199 (2008).
- [II22] VV. Chudacek, G. Georgoulas, L. Lhotska, C. Stylios, M. Petrik and M. Cepek, **Examining cross-database global training to evaluate five different methods for ventricular beat classification**. *Physiological Measurement* (2009), Vol. 30, pp. 661-677 (2009).
- [II23] C.N. Antonopoulos, V.G. Papadakis, C.D. Stylios, M.P. Efstathiou and P.P. Groumpos, **Mainstreaming innovation policy in less favoured regions: the case of Patras Science Park, Greece**. *Science and Public Policy*, Vol. 36, No. 7, pp. 511-521 (2009).

- [II24] P. Zacharia, F. Stefanou, C.D. Stylios and P.P. Groumpos, **Experiences and lessons learnt from an interregional growth project: the role of innovation and STPs.** *International Journal of Innovation and Regional Development*, Vol. 3, No. 3/4, pp. 395-416 (2011).
- [II25] J. Spilka, V. Chudacek, M. Koucky, L. Lhotska, M. Huptych, P. Janku, G. Georgoulas and C. Stylios, **Using nonlinear features for fetal heart rate classification.** *Biomedical Signal Processing and Control*, Vol. 7, No. 4, pp. 350–357 (2012).
- [II26] Stavros Kolios, Chrysostomos D. Stylios, **Identification of land cover/land use changes in the greater area of the Preveza peninsula in Greece using Landsat satellite data.** *Applied Geography*, Volume 40, June 2013, pp. 150-160 (2013).
- [II27] G. Georgoulas, A. Konstantaras, E. Katsifarakis, C.D. Stylios, E. Maravelakis, G.J. Vachtsevanos, **"Seismic-mass" density-based algorithm for spatio-temporal clustering.** *Expert Systems with Applications*, Volume 40, Issue 10, August 2013, pp. 4183-4189 (2013).
- [II28] G. Georgoulas, T. Loutas, C.D. Stylios and V. Kostopoulos, **Bearing fault detection based on hybrid ensemble detector and Empirical Mode Decomposition.** *Mechanical Systems and Signal Processing*, Volume 41, Issues 1–2, December 2013, pp. 510–525 (2013).
- [II29] G. Georgoulas, M.O. Mustafa, I.P. Tsoumas, J.A. Antonino-Daviu, V. Climente-Alarcon, C.D. Stylios, G. Nikolakopoulos, **Principal Component Analysis for the start-up transient and Hidden Markov Modeling for broken rotor bar fault diagnosis in asynchronous machines.** *Expert Systems With Applications*, Volume 40, Issue 17, December 2013, pp. 7024-7033 (2013).
- [II30] S. Kolios, G. Georgoulas and C.D. Stylios, **Achieving downscaling of Meteosat thermal infrared imagery using artificial neural networks.** *International Journal of Remote Sensing*, Vol. 34, No 21, pp. 7706-7722 (2013).
- [II31] G. Georgoulas, P. Karvelis, G. Iacobellis, V. Boschian, M-P Fanti, W. Ukovich and C.D. Stylios, **Harmony Search augmented with Optimal computing Budget allocation capabilities for Noisy Optimization.** *International Journal of Computer Science*, Vol. 40, No 4, pp. 285-290 (2014)
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