

University of Patras
Polytechnic School
Electrical and Computer Engineering Department
Applied Electronics Laboratory

Curriculum Vitae

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1. General Information

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2. Degrees

- PhD - Electrical and Computer Engineering Department, University of Patras, Patras, GREECE. Title: "Based on Standards Semantics Modeling & Orchestration of Industrial Processes Utilizing Contemporary Internet Technologies"
- MSEE - Electrical Engineering Department, Polytechnic Institute of New York University (NYU Poly), New York, U.S.A.
- BSEE - Electrical Engineering Department Farleigh Dickinson University (FDU), New Jersey, USA

3. Positions / Experiences

- 2000 - Today: Tenured Laboratory Teaching Staff in the Electrical and Computer Engineering Department, University of Patras, Greece
- 2008 – 2012 Adjunct Assistant Professor (PD 407/80) in the Computer Engineering & Informatics Department (CEID), University of Patras, Greece
- 1998 – Today: Collaborating Research Engineer in the Industrial Systems Institute / RC ATHENA (ISI)
- 1990 – 2000: Research Engineer in the Applied Electronics Laboratory of the Electrical and Computer Engineering Department, University of Patras, Greece

4. Laboratory Courses Instructor

- Analog Integrated Electronics (3rd year, UPAT_ECE Dept)
- Digital Integrated Circuits and Systems (3rd year, UPAT_ECE Dept)

5. Courses co-teaching

- Software Engineering (4th year, CEI Dept, UPAT)
- Software Quality Assurance and Standards (4th year, CEI Dept, UPAT)
- Web Services (5th year, ECE Dept, UPAT)
- Software Engineering (2nd year, Integrated Hardware and Software Systems-OSYL, UPAT)
- Software Agents Methodologies (1st year, Distributed Green Electric Power and the Advanced Network Infrastructure for its Management and Economy, UPAT)

6. Notable Scientific Activities

- 2017 – Present: MC member to COST Action CA16235 Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data (PEARL-PV)”. This COST Action aims to increase performance and lower costs of electricity produced by photovoltaic (PV) solar electricity systems in Europe via (i) obtaining higher energy yields, (ii) achieving longer operational life time and (iii) lowering the perceived investment risk in PV projects.
- 2013 - 2017: MC Substitute member to COST Action IC1303 “Algorithms, Architectures and Platforms for Enhanced Living Environments (AAPELE)”. This action addresses the issues of defining software, hardware and service architectures for AAL, on studying and creating more efficient algorithms for AAL, particularly those related to the processing of large amounts of data and of bio signals in lossy environments, and on the research on studying communication and data transmission protocols for AAL.
- 2000-2003: ELOT EN ISO 9001 Quality System Assurance Manager regarding the research - development activity: "Design, development and support of industrial systems" of the Applied Electronics Laboratory, of the Electrical and Computer Engineering Department, University of Patras, Greece
- Regular Reviewer in International Scientific Journals: SENSORS Open Access Journal by MDPI (IF 2.475), IEEE Transactions on Industrial Electronics (IF 7.05), IEEE Transactions on Industrial Informatics (IF 5.43), Proceedings of the IEEE (IF 9.107), SPRINGER Journal of Ambient Intelligence and Humanized Computing (IF 1.423), ELSEVIER Computers & Electrical Engineering (IF 1.747), IEEE Embedded Systems Letters, ACM Transactions on Embedded Computing Systems, Journal of

Intelligent and Robotic Systems, Transactions on IEICE/IEEE Joint Special Section on ISADS

- Regular Reviewer in International Scientific Conferences: IOP2018, IEEE IECON, IEEE ISSPIT, IEEE WFCS, IEEE ETFA, IEEE ISIE, IEEE ICIT, PDCCS, ICEAC, ICT,
- Proposal evaluator on behalf of the General Secretariat of Research and Technology (GSRT) that belongs in the Hellenic Ministry of Education Lifelong Learning and Religious Affairs for the:
 - Operational Program for Human Resource and Development
 - Bilateral R&D Cooperation between Greece and China 2012-2014

7. Research Interests

Industrial IoT

- Device Profile
- Edge Computing
- Low power consumption, reliability
- Distributed ledgers
- Embedded Security, Privacy and Dependability (SPD)

Machine Learning

- Knowledge Deduction
- Knowledge Representation – Ontology Engineering

8. International Conferences Committees

1. 2018 HealthyIoT, 5th EAI International Scientific Event on Internet of Things and Healthcare, Technical Program Committee Member
2. 2018 HPCS 2018, Special Session on Digital Home Networks & Ambient Intelligence (DHN-AI), Technical Program Committee Member
3. 2018 Symposium on Internet of Things, Fog Computing, and Wireless Location Technologies (SIFL'18), Technical Program Committee Member
4. 2018 5th International Conference of Engineering Against Failure ICEAF V, Session Chair
5. 2016 GOODTECHS, 2nd EAI International Conference on Smart Objects and Technologies for Social Good, Smart Things for Active and Assisted Living (ST4AAL), Technical Program Committee Member

6. 2014 IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2014), Special Session Chair
7. 2013 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'2013), Publicity Chair
8. 2013 IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2013), Special Session Chair
9. 2012 IEEE International Conference on Industrial Technology (ICIT'2012), Special Session Chair and Publication Chair
10. 2012 IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2012), Special Session Chair
11. 2011 IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2011), Special Session Chair
12. 2010 IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2010), Special Session Chair
13. 2009 IEEE International Symposium on Autonomous Decentralized Systems (ISADS'2009), Publicity Chair
14. 2009 IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2009), Special Session Chair
15. 2008 IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2008), Special Session Chair
16. 2007 IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'2007), Special Session Chair

9. Diploma Theses Supervision

Finalized

1. 2015: Konstandinos Katerinopoulos (AM7193) "Rating control technologies for the availability of parking spaces and development of a monitoring app"
2. 2016: Panagiotis Pavlou (AM7609) "Application of a Computational Platform for the analysis and Presentation of EEG Signals"
3. 2018: Krizea Maria (AM8097) "Algorithmic Application of Vital Signal Processing to Determine Patient Status"

There are nine (9) Diploma Theses in Progress

10. Research and Development Projects (after 2005)

1. 2018 – 2020: AgrIoT "Smart Services Based on the Internet of Things to Support Agriculture" Operational Program Western Greece 2014 -2020, Action: Support to Small and Medium Enterprises for research projects in the Microelectronics Sector (including Embedded Systems and Innovative IT applications) aiming at providing an integrated solution regarding precision farming based on the Internet of Things (IoT) technology. Role: Scientific responsible
2. 2019 – 2020: MeAct "Integrated Active Citizen Assistance System" Operational Program Western Greece 2014 -2020, Action: Strengthening the Development and Innovation Research Projects in the RIS3 Priority Area "Information Communications Technology (ICT)" aiming at developing a wearable system of biosensors and wellness sensors. Role: Scientific responsible
3. 2019 – 2020: PANOPTIS "Cloud Services Platform to Strengthen Traceability and Quality of Plant and Animal Production Products " Operational Program Western Greece 2014 -2020, Action: Strengthening the Development and Innovation Research Projects in the RIS3 Priority Area "AgroFood" aiming at developing a an Electronic Identification (RFID) based Product Traceability System with a built-in Sensitive Collection and Critical Information Sensor with Wireless Capability. Role: Scientific responsible
4. 2018 – 2021: BioS "Digital Skills on Computational Biology for Health Professionals" (ERASMUS+ - EACEA): BioS targets at the development of a VET training programme in Computational Biology (Bioinformatics), aiming at enhancing the digital skills of health professionals on running bioinformatics tools and in handling big biological data. Role: Scientific responsible
5. 2018 – 2021: IntelTriage "Intelligent system for priority sorting and monitoring of medical incidents" (INVESTIGATE-CREATE-INNOVATE 2017). IntelTriage aims at the development of an intelligent system of dynamic triage and in-service planning of incoming hospital clinic incidents and the efficient 24-hour follow-up of admitted incidents in clinics using bio-sensors. Role: Scientific responsible
6. 2017 – 2020: A4B&D "ASTRONOMY FOR BLIND AND DISABLED" (ERASMUS+ -IKY): A4B&D targets at the development of the digital means and technology for the

visually impaired people to have access in astronomy. Role: Scientific Responsible for the whole project

7. 2018 – 2020: CI – Innovatec “Customer Intelligence for Innovative Tourism Ecosystems” (INTERREG GREECE-ITALY). CI-NOVATEC aims to enhance local Tourism Ecosystems performance by introducing and setting-up innovative techniques & technologies for collecting experience related (result-driven), visitor (bottom-up) data, which will be analyzed to outline customer (tourists) intelligence to better understand economic performance of Local Tourism Clusters in order to assist business-level & policy-level decision making and therefore to boost sustainability and efficiency of CBC area cluster SMEs. Role: Scientific responsible
8. 2017 – 2020: I3T “Innovative Application of Industrial Internet of Things (IIoT) in Smart Environments” (STRATEGIC ACTIVITIES FOR THE DEVELOPMENT OF RESEARCH AND TECHNOLOGICAL BODIES). I3T proposes innovative solutions for the application of innovative technologies in Smart Energy, including the distributed electrical energy production and transfer (smart grid) as well as the dimension of a medium / large consumer, such as a Smart Building. Role: Researcher
9. 2012–2015: h-SEAT “Healthy Sleep and Exercise Analysis Tool” (LEAD ERA 2012). h-SEAT project developed a unique and evolving solution, encompassing a full set of medical devices, which are either fixed or mobile, along with the analysis and interpretation of integrated medical data which will help the elderly’s sleep re-education regarding healthy routines and exercises. Role: Scientific responsible
10. 2013–2015: DynaCargo (Greek COOPERATION-2011): Development of a cargo-centric dynamic transport management system. Role: Scientific Responsible
11. 2012–2014: SELIDA (Greek COOPERATION-2009): Development of a comprehensive and innovative system for the management of printed material (books, publications) based on RFID technology and its efficient interconnection with Back Office systems and the use of web services (Object Naming Service - ONS). Role: Scientific Responsible for the whole project.
12. 2012–2015: KATHODIGOS (Greek COOPERATION-2009) Integrated System for Urban Road Assistance based on Cooperative Nodes: Development of an

innovative adaptive system based on integration of wired sensors and distributed cooperative wireless nodes with advanced applications aiming in real-time recording and diffusion of information for monitoring the availability of controlled parking seats and for supporting optimal usage of urban roads. Role: Scientific Responsible

13. 2011-2014: ARTEMIS-2010-1, 269317, “New embedded Systems architecture for multi-Layer Dependable solutions” (nSHIELD). The nSHIELD project aims at addressing Security, Privacy and Dependability (SPD) issues in the context of Embedded Systems (ESs) as “built in” rather than as “add-on” functionalities, perceiving the strategy to be the first step towards SPD certification for the future ES, throughout an holistic approach. Role: Scientific Responsible
14. 2010–2013: ARTEMIS-2009-1, 100228, “Cyclic and person-centric Health management: Integrated approach for Home, mobile and clinical environments” (CHIRON). The CHIRON project intends to combine state-of-the art technologies and innovative solutions into an integrated framework designed for an effective and person-centric health management along the complete care cycle. Role: Scientific Responsible
15. 2009 – 2012, ARTEMIS-2008–1, 100016: “Cost-efficient Methods and Processes for Safety Relevant Embedded Systems” (CESAR). CESAR addresses the industrial needs for embedded system development for safety relevant applications by developing ultra-reliable embedded components for use in an extremely competitive global market requiring drastic cost reductions. Role: Technical Responsible
16. 2009 – 2012: ITEA 2 – 2008 - Call3, ip08004, “Cooperative Advanced REsearch for Medical Efficiency” (CARE4ME). The outcome of this project are clinical prototypes of novel medical image analysis and decision support systems for three specific disease areas (cancer, cardio-vascular and neurodegenerative disease), that connect to the hospital information systems using a new system architecture. Role: Technical Responsible
17. 2008 – 2011: FP7, ICT – 224119: “Pan-European Laboratory Infrastructure Implementation” (PII). PII addresses the need for large-scale testing facilities in the communications area by implementing an infrastructure for federating

testbeds. The central objective of PII is to create a test bed federation among regional innovation clusters in Europe. This will enable companies participating in these clusters to test new communication services and applications across Europe. Role: Technical Responsible

18. 2006 – 2010: FP6 IST NoE – 38419: “Interactive Media with Personal Networked Devices” (INTERMEDIA) : <http://intermedia.miralab.unige>. ISI’s main task is the development of a framework to provide secure multimedia services over a wide variety of hardware devices, seamlessly in a complete solution that enables the use of heterogeneous security primitives, considering the differing capabilities of the hardware components. The resulting protocols and mechanisms will be evaluated for operation in resource limited environments. The communication interface will be designed appropriately, so that it can support the heterogeneity of the interconnected devices. Role: Technical Responsible

19. 2006 – 2008: HYGIEIA (Greek EPAN): Implementation of a wearable sensor network and advanced interactive system for the health monitoring with off-the-shelf compliant network nodes and custom-built physiological parameters sensors. Discovery of semantically enriched medical services is also being considered as a potential outcome of the project. Role: Technical responsible

20. 2006 – 2008: GAIA (Greek EPAN / INTERNATIONAL COLLABORATION): Innovative methodology for the integration of information systems in the largest petroleum industry in Greece based on the implementation of semantically enriched web services. Relevant semantics accrued from process and product ontologies incorporating terms and concepts from the whole range of oil life-cycle stages. Role: Technical responsible

21. 2006 – 2008 : METHODIKA (Greek PEP-WG): Development of innovative methodologies in regard to management, administration and operation of distributed virtual enterprises for software system development based on the implementation of existing standard process ontologies. Role: Researcher

22. 2005 - 2008 FP6 IST– 016649: “PABADIS based Product Oriented Manufacturing Systems for Re-Configurable Enterprises” (PABADIS PROMISE): ISI’s main task was the development of a new control architecture based on distributed intelligence, a new manufacturing ontology, an embedded Real-Time agent

platform for control, a new generation of RFID's, a new generation of field control devices and building blocks for the new generation of Enterprise Resource Planning systems. Manufacturing ontology fragmentation for efficient utilization and agent model semantic mark-up are also being implemented. Role: Researcher

23. 2004 – 2006: CLIO (Greek EP-KtP): Design, implementation and operation of an integrated information and workflow management framework by exposing ERP functionality via semantically enriched web services utilizing process ontology semantics and WFMS which were implemented during the project. Role: Researcher

24. 2004 – 2006: C2S2 (Greek EPAN): Design, implementation and operation of an integrated interactive B2B system based on the utilization of the Rosetta Net inter-enterprise process ontology as well as a food product ontology which was implemented. Role: Researcher

11. Publications

International Journals

1. S. Dima, C. Panagiotou, D. Tsitsipis, C. Antonopoulos, J. Gialelis, S. Koubias, "Performance evaluation of a WSN system for distributed event detection using Fuzzy Logic", Elsevier, Ad Hoc Networks 23 (2014): pgs 87–108
2. Samaras, I.K., Gialelis, J.V, "On the Estimation of the Free Size of Parking Places in Smart Cities by Using Wireless Sensor Networks" IEEE COMSOC MMTC E-Letter Vol. 9, No. 5 (2014): pgs 52-55
3. S. Dima, C. Panagiotou, E. Mazomenos, J. Rosengarten, K. Maharatna, J. Gialelis, N. Curzen, J. Morgan, "On detection of myocardial scar based on ECG/VCG analysis", In IEEE Transactions on Biomedical Engineering, Vol. 60, No. 12, 2013.
4. Samaras, I.K., Hassapis, G.D, Gialelis, J.V., "A Modified DPWS Protocol Stack for 6LoWPAN-Based Wireless Sensor Networks", IEEE Transactions on Industrial Informatics, 2012
5. A. Fragopoulos, J. Gialelis, D. Serpanos, «Security Framework for Pervasive Healthcare Architectures Utilizing MPEG-21 IPMP Components», International

Journal of Telemedicine and Applications. Volume 2009, Article ID 461560,
<http://www.hindawi.com/journals/ijta/2009/>

6. A. Lueder, J. Peschke, A. Bratukhin, A. Treytl, A. Kalogeras, J. Gialelis, „The Pabadis’Promise Architecture”, in Automaxione e Strumentazione, ANIPLA, N. 10, pp. 94-101, Nov. 2007
7. V. Chapurlat, D.Diep, A.Kalogeras, J.Gialelis, Building and validating a Manufacturing Ontology to achieve interoperability, in Enterprise Interoperability II, New Challenges and Approaches, (R.J.Goncalves, J.P. Muller, K. Mertins, M. Zelm, Eds.) Springer Verlag London, 2007, pp.261-272.
8. J. Gialelis, A. Kalogeras, A. Kaklis, S. Koubias, “Collaborative Continuous Replenishment Planning Model and its Implementation Utilizing Web Services, Product Ontologies and Workflow Management Systems based on the RosettaNet Framework”, International Journal of Factory Automation, Robotics and Soft Computing ISSN 1828-6984, June 2006.
9. AP. Kalogeras, JV. Gialelis, CE. Alexakos, MJ. Georgoudakis, and S.A. Koubias, “Vertical Integration of Enterprise Industrial Systems Utilizing Web Services” IEEE Transactions on Industrial Informatics, vol. 2, No. 5, pp. 120-128, May 2006.
10. Gialelis, J.V., Karagiannidis, G.K., and Georgopoulos, C.J., "AMI/NRZ Interface for Basic Access ISDN in Indoor Infrared Links", IEE Electronic Letters, vol.27, No.24, pp. 2285-2286, November 21, 1991.

Book Chapters

11. J. Gialelis, A. Papalambrou, K. Stefanidis, D. Serpanos, “SHIELD Technologies and Methodology for Security, Privacy and Dependability”, in the book “Measurable and Composable Security, Privacy, and Dependability for Cyberphysical Systems: The SHIELD Methodology”, CRC Press - Taylor and Francis, 2018, ISBN 978-1138042759.
12. Anastasios Fragopoulos, John Gialelis and Dimitrios Serpanos, “DRM & Security Enabling Mechanisms Leveraging User Centric Multimedia Convergence”, in the book Cutting Edge Research in New Technologies, InTech - Open Access Publisher, 2012, ISBN 978-953-51-0463-6.

13. "New Technologies for the Intelligent Design and Operation of Manufacturing Networks" Results and Perspectives from the European AITPL Project Cluster, Fraunhofer IRB Verlag, Stuttgart, 2007, ISBN 978-3-8167-7520-1
14. "Collaborative Continuous Replenishment Planning Model and its Implementation Utilizing Web Services, Product Ontologies and Workflow Management Systems based on the RosettaNet Framework" Recent advances in Control Systems, Robotics and Automation, International Society for Advanced Research, Associazione InternationalSAR, Palermo, 2006, ISBN: 88-901928-0-1.

International Conferences

2019

15. J. Gialelis, et al, "A Low-Cost Internet of Things (IoT) Node to Support Traceability; Logistics Use Case", 5th EAI International Conference on Smart Objects and Technologies for Social Good (GOODTECHS 2019)
16. J. Gialelis, et al, "An Integrated Low Cost IoT Node based on Discrete Components for Customized Smart Applications; Use case on Precision Agriculture", 8th Mediterranean Conference on Embedded Computing (MECO2019)
17. M. Krizea, J. Gialelis, S. Koubias, "Comparative study between Fuzzy Inference System, Adaptive Neuro-Fuzzy Inference System and Neural Network for Healthcare Monitoring", 8th Mediterranean Conference on Embedded Computing (MECO2019)
18. J. Gialelis, et al, "Astronomy for the Blind and the Visually Impaired", 11th International Conference on e-Health - Multiconference on Computer Science and Information Systems 2019 (eHealth - MCCSIS 2019)
19. D. Karadimas, C. Panagiotou, J. Gialelis, C. Chousiadis, N. Panagis, S. Koubias, "Data simulation as a service: The I3T paradigm on the IoT", 8th Mediterranean Conference on Embedded Computing (MECO2019)

2018

20. O. Lamtzidis, J. Gialelis, "An IOTA based Distributed Sensor Node System", IEEE Global Communications Conference 2018 (GLOBECOM2018)
21. J. Gialelis, P. Pavlou, C. Panagiotou, S. Koubias, N. Pombo, N. Garcia, "An Unobtrusive System for the Detection of Mental Focus Depletion", 10th International Conference on e-Health - Multiconference on Computer Science and Information Systems 2018 (eHealth - MCCSIS 2018)
22. M. Krizea, J. Gialelis, C. Panagiotou, and S. Koubias, "Towards a resilient health status assessment employing intelligence in cyber physical systems", 5th International Conference of Engineering Against Failure, ICEAF 2018
23. A. Papalambrou, J. Gialelis, D. Serpanos, "A combined cyber and physical attack resilience scheme for Health Services Critical Infrastructures", 5th International Conference of Engineering Against Failure, ICEAF 2018

2016

24. D. Karadimas, A. Papalambrou, J. Gialelis and S. Koubias, "An integrated node for Smart-City applications based on active RFID tags; Use case on waste-bins" 21st IEEE Emerging Technologies in Factory Automation conference, ETFA 2016
25. I. Samaras, J. Gialelis and S. Koubias, "Using Web Services based Wireless Sensor Networks for Estimating the Free Size of Parking Places" 23rd International Conference on Telecommunications, ICT2016.

2015

26. A. Papalambrou, D. Karadimas, J. Gialelis and A. Voyiatzis, " A Versatile Scalable Smart Waste-bin System based on Resource-limited Embedded Devices" 20th IEEE Emerging Technologies in Factory Automation conference, ETFA 2015
27. J. Gialelis, C. Panagiotou, D. Karadimas, I. Samaras, P. Chondros, D. Serpanos, S. Koubias, "Sleep Monitoring Classification Strategy for an Unobtrusive EEG System", 4th Mediterranean Conference on Embedded Computing, MECO – 2015.
28. C. Panagiotou, I. Samaras, J. Gialelis, P. Chondros, D. Karadimas, "A Comparative Study between SVM and Fuzzy Inference System for the Automatic Prediction of

- Sleep Stages and the Assessment of Sleep Quality", 9th International Conference on Pervasive Computing Technologies for Healthcare, PervasiveHealth 2015.
29. G. Asimakopoulos, S. Christodoulou, A. Gizas, V. Triantafillou, G. Tzimas, J. Gialelis, A. Voyiatzis, D. Karadimas, A. Papalambrou, "Architecture and Implementation Issues, Towards a Dynamic Waste Collection Management System", 24th International World Wide Web Conference, WWW2015.
30. A. Sarria-Ereño, A. Méndez-Zorrilla, B. García-Zapirain, J. Gialelis, "Wearable sensor-based system to promote physical activity among elderly people", Published in: IEEE International Symposium on Signal Processing and Information Technology (ISSPIT 2015)

2014

31. A. G. Voyiatzis, J. Gialelis and D. Karadimas "Dynamic Cargo Routing on-the-Go: The Case of Urban Solid Waste Collection", 2nd IEEE International Workshop on Smart City and Ubiquitous Computing Applications (WiMob 2014)
32. A. Papalambrou, K. Stefanidis, J. Gialelis, D. Serpanos, "Detection, trace back and filtering of denial of service attacks in networked embedded systems", 9th Workshop on Embedded Systems Security (WESS 2014)
33. J. Gialelis, C. Panagiotou, P. Chondros, D. Karadimas, E. Batzi, "End-to-end system for the relationship modelling of physical exercise with sleep quality", e-Health (EH 2014) – Multi Conference on Computer Science and Information Systems (MCCSIS 2014)
34. A. Arvanitopoulos, J. Gialelis, S. Koubias, "Energy Efficient Indoor Localization utilizing BT 4.0 Strapdown Inertial Navigation System" 19th IEEE Emerging Technologies in Factory Automation conference (ETFA 2014)
35. I. Samaras, A. Arvanitopoulos, N. Evangeliou, J. Gialelis, S. Koubias, "A fuzzy rule-based and energy-efficient method for estimating the free size of parking places in smart cities by using wireless sensor networks" 19th IEEE Emerging Technologies in Factory Automation conference (ETFA 2014)
36. D. Karadimas, E. Polytarchos, K. Stefanidis, J. Gialelis, "Information System Framework Architecture for Organization Agnostic Logistics Utilizing Standardized IoT Technologies" 3rd Workshop on Information Technologies for

Logistics (IT4L'14) under the Federated Conference On Computer Science And Information Systems (FedCSIS 2014).

2013

37. A. Papalambrou, J. Gialelis, D. Serpanos, "Increasing security in wireless e-health systems", In Proceedings of the 13th IEEE Symposium on Signal Processing and Information Technology (ISSPIT 2013), 2013.
38. Fragopoulos, J. Gialelis and D. Serpanos, "Content Management and Protection in Smart Cities IP Based Backbone Wireless Sensors Networks", In Proceedings of the 13th IEEE Symposium on Signal Processing and Information Technology (ISSPIT 2013), 2013.
39. V. Samaras, N. Evangeliou, A. Arvanitopoulos, J. Gialelis, S. Koubias, A. Tzes, 'KATHODIGOS - A Novel Smart Parking System based on Wireless Sensor Networks ', 2013, 1st Conference on Intelligent Transportation Systems (ITS), Zilina, Slovakia, August 2013
40. J. Gialelis, D. Karadimas, E. Polytarchos, P. Chondros, "An ONS-based Architecture for Resolving RFID-enabled Objects in Collaborative Environments", IEEE World Congress on Multimedia and Computer Science, WCMCS 2013
41. J. M. Rodríguez, C.C.Barca, P. E. Puddu, J. Gialelis, P. Chondros, D.Karadimas, K. Keene, and J. M. Verlinden, "Archetype-based solution to tele-monitor patients with chronic diseases", MEDICON 2013
42. C. Panagiotou, S. Dima, E. Mazomenos, J. Rosengarten, K. Maharatna, J. Gialelis, J. Morgan, "Detection of myocardial scar from the VCG using a supervised learning approach" 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 2013

2012

43. S.-M. Dima, D. Tsitsipis, C. Antonopoulos, J. Gialelis, and S. Koubias, "FLOGERA: a fuzzy logic event recognition algorithm in a WSN environment," 8th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC '12), pp. 850–855.

44. C. Cavero, J. Rodríguez, R. Valle, A. Rugnone, F. Foresti, E. Tamburini, J. Gialelis, P. Chondros, C. Panagiotou, M. Ilardia, I. Eguia, P. Puddu, "Medical Expert Support Tool (MEST): a person-centric approach for healthcare management", ICOST 2012
45. Sofia-Maria Dima, Christos Antonopoulos, John Gialelis, Stavros Koubias, " A Network Reliability Oriented Event Detection Scheme for Wireless Sensors and Actors Networks", 2012 IEEE International Conference on Industrial Technology, ICIT 2012
46. Andreas Papalambrou, Anastasios Fragopoulos, Dimitrios Tsitsipis, John Gialelis, Dimitrios Serpanos, Stavros Koubias, "Communication security and privacy in pervasive user-centric e-health systems using Digital Rights Management and side channel attacks defense mechanisms", 2012 IEEE International Conference on Industrial Technology, ICIT 2012, pp. 614-619
47. A. Papalambrou, J. Gialelis, D. Serpanos, «Defending against side channel attacks and traffic analysis in e-health systems», 2012 International Conference on Telecommunication Systems, Modeling and Analysis (ICTSM2012), Prague, Czech Republic, May 24-26, 2012,
48. D. Tsitsipis, S.M. Dima, A. Kritikakou, Ch. Panagiotou, J. Gialelis, H. Michail and S. Koubias, « "Priority Handling Aggregation Technique (PHAT) for Wireless Sensor Networks" 2012 IEEE Emerging Technologies in Factory Automation conference, ETFA 2012

2011

49. J. Gialelis, P. Chondros, D. Karadimas, S. Dima, D. Serpanos, "Identifying Chronic Disease Complications Utilizing State of the Art Data Fusion Methodologies and Signal Processing Algorithms", 2nd International ICST Conference on Wireless Mobile Communication and Healthcare - MobiHealth 2011, pp. 256-263
50. S.-M Dima, J. Gialelis, S. Koubias, "Knowledge based actor to actor coordination in Wireless Sensor and Actor Networks", 16th IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2011.

51. J. Gialelis, "Mechanisms for identifying patient's uniqueness based on data mining algorithms", 2011 Conference on Wearable Micro and Nano Technologies for Personal Health, pHEALTH 2011.

2010

52. J. Gialelis, D. Karadimas, P. Chondros, D. Serpanos, "Collaborative B2B e-Commerce Utilizing Semantic Web-Services and Smart Agents", Networking and Electronic Commerce Research Conference 2010 (NAEC 2010), 2010.
53. C. Panagiotou, J. Gialelis, S. Koubias, D. Serpanos, "An agent-based middleware imposing intelligence over critical infrastructures utilizing Wireless Sensor Networks, Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2010, September 2010.
54. I. Samaras, J. Gialelis, G. Hassapis, "A Service Oriented-based System for Real Time Industrial Applications", in the Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2010, September 2010.
55. M. Repetto, R. Rapuzzi, S. Chessa, S. Lenzi, J. Gialelis, A. Fragopoulos, "The InterMedia networking and security architecture for user centric multimedia convergence", Proceedings of 2010 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS 2010, July 2010.
56. A. Fragopoulos, J. Gialelis, D. Serpanos, « Imposing Holistic Privacy and Data Security on Person Centric eHealth Monitoring Infrastructures», Proceedings of the 12th IEEE International Conference on E-HEALTH Networking, Applications & Services, IEEE HEALTHCOM'10, July 2010.

2009

57. I. Samaras, J. Gialelis, G. Hassapis, V. Akpan, "Utilizing Semantic Web Services in Factory Automation towards Integrating Resource Constrained Devices into Enterprise Information Systems", Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2009, 2009

58. I. Samaras, J. Gialelis, G. Hasapis, "Integrating Wireless Sensor Networks into Enterprise Information Systems by Using Web Services" Proceedings of the Third International Conference SENSORCOMM 2009, pp.580 – 587, June 2009.
59. Fragopoulos, A.; Gialelis, J.; Serpanos, D.; , "Adaptive DRM framework in user-converged multimedia ecosystems, utilizing MPEG-21 semantics," Proceedings of the International Symposium on Autonomous Decentralized Systems 2009. ISADS '09, pp.1-6, 23-25 March 2009.

2008

60. A.P. Kalogeras, C. Alexakos, M. Georgoudakis, J. Gialelis, and S. Koubias, "Semantics in the manufacturing environment - a multiple syntax representation approach for the interoperable information exchange between heterogeneous systems", 2nd International Workshop on Advanced Manufacturing Systems (WAMS2008), 2008.
61. J. Gialelis, D. Karadimas, P. Chondros, A. Kalogeras, S. Koubias, D.Serpanos, "Web Services based Collaborative B2B e-commerce in the Oil Industry", Proceedings of the International Conference on Parallel and Distributed Computing and Communication Systems, PDCCS 2008
62. J. Gialelis, P. Foundas, A. Kalogeras, M. Georgoudakis, A. Kinalis, S. Koubias, "Wireless Wearable Body Area Network Supporting Person Centric Health Monitoring", Proceedings of the IEEE International Workshop on Factory Communication Systems, WFCS2008
63. M. Georgoudakis, C. Alexakos, A. Kalogeras, J. Gialelis, S. Koubias, "Ontology-based agent modeling - a formal methodology to incorporate a domain ontology in a multi-agent system", Proceedings of the IEEE International Workshop on Factory Communication Systems, WFCS2008

2007

64. A.P. Kalogeras, L. Ferrarini, A. Lueder, J. Gialelis, C. Alexakos, J. Peschke, C. Veber, "Ontology-driven Control Application Design Methodology", Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2007, pp. 1425-1428.

65. M. Georgoudakis, C. Alexakos, A.P. Kalogeras, J. Gialelis and S. Koubias, "Methodology for the efficient distribution a manufacturing ontology to a multiagent system utilizing a relevant Meta-Ontology" Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2007, pp. 1210-1216.
66. T. Fragopoulos, A. Athanasopoulos, A. Vogiatzis, E. Topalis, J. Gialelis, S. Koubias, "Security and DRM in Indoor/Outdoor Heterogeneous Networking Applications for User – Centric Frameworks", Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2007, pp. 651-656.
67. A. Peternier, X. Righetti, M. Hopmann, D. Thalmann, M. Repettoy, G. Papagiannakis, P. Davy, M. Lim, N. Magnenat-Thalmannz, P. Barsocchix, T. Fragopoulos, D. Serpanos, J. Gialelis, A. Kirykou, "Chloe@University: an indoor, mobile mixed reality guidance system", The ACM Symposium on Virtual Reality Software and Technology, VRST, 2007.
68. V. Chapurlat, D. Diep, A. Kalogeras, J. Gialelis, "Building and validating a Manufacturing Ontology to achieve Interoperability" Proceedings of I-ESA 2007 3rd International Conference on Interoperability for Enterprise Software and Applications.

2006

69. A. Lüder, J. Peschker, A. Bratukhin, A. Treytl, A. Kalogeras and J. Gialelis, "The PABADIS' PROMISE – architecture" Proceedings of the ANIPLA 2006 conference on Methodologies for Emerging Technologies in Automation.
70. J. Gialelis, A.P. Kalogeras, A. Kaklis, and S. Koubias, "Collaborative Continuous Replenishment Planning Process Implementation Utilizing Web Services, Product Ontologies and Workflow Management System" Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2006, pp. 574 – 581.
71. L. Ferrarini, C. Veber, A. Lüder, J. Peschke, A. Kalogeras, J. Gialelis, J. Rode, D. Wünsch, and V. Chapurlat, "Control Architecture for Reconfigurable Manufacturing Systems: the PABADIS' PROMISE approach" Proceedings of the

IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2006, pp. 545 – 552.

72. C. Alexakos, M. Georgoudakis, A. Kalogeras, K. Charatsis, J. Gialelis, and S. Koubias, “A Model for the Extension of IEC 62264 down to the Shop Floor Layer”, Proceedings of the IEEE International Workshop on Factory Communication Systems, WFCS2006, pp.243-246.
73. Georgoudakis, C. Alexakos, A. Kalogeras, J. Gialelis, and S. Koubias “Decentralized Production control through ANSI / ISA-95 – based ontology and agents”, Proceedings of the IEEE International Workshop on Factory Communication Systems, WFCS2006, pp.375-380.

2005

74. *J.Gialelis*, A. Kalogeras, C. Alexakos, M.Georgoudakis, S.Koubias “Advanced Enterprise Process Modeling Utilizing Ontology Semantics” Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2005; vol. II, pp. 589-596.
75. *J. Gialelis*, A.P. Kalogeras, A. Kaklis, and S. Koubias, “RosettaNet-based Implementation for a Collaborative Continuous Replenishment Planning Model Utilizing Web Services and Ontologies” Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2005; vol. I, pp.497-504.
76. C. Alexakos, A.Kalogeras, S.Likothanassis, *J.Gialelis*, S. Koubias “Workflow - Coordinated Integration of Enterprise / Industrial Systems based on a Semantic Service - Oriented Architecture” Proceedings of the IEEE International Conference on Emerging Technologies and Factory Automation, ETFA2005, vol. II, pp.273-280.
77. *J.V. Gialelis*, A.P. Kalogeras, C.E. Alexakos, M.J. Georgoudakis and G. Papadopoulos “Manufacturing Collaborative Process Integration Utilizing State of the Art Technologies”, Proceedings of the IEEE International Symposium on Industrial Electronics, ISIE2005, vol. IV, pp. 1429-1434.
78. K. Charatsis, A.P. Kalogeras, M. Georgoudakis, *J. Gialelis*, and G. Papadopoulos “Home / Building Automation Environment Architecture Enabling

Interoperability, Flexibility and Reusability", Proceedings of the IEEE International Symposium on Industrial Electronics, ISIE2005, vol. IV, pp. 1441-1446.

2004

79. *Gialelis, J., A. Kalogeras, S. Koubias*, "Introducing Enterprise Application Interoperability Using Internet Technologies", Proceedings of the IEEE International Conference on Mechatronics & Robotics 2004, vol. 1, pp. 241-246.
80. *V.Kapsalis, J. Gialelis, S.Nikoloutsos, S.Koubias* "Seamless Data in a B2B Information Incorporation of Industrial Infrastructure" IEEE International Workshop on Factory Communication Systems, WFCS2004, pp. 297-300.
81. *Kalogeras, J. Gialelis, C. Alexakos, M. Georgoudakis, S. Koubias* "Vertical Integration of Enterprise Industrial Systems Utilizing Web Services" IEEE International Workshop on Factory Communication Systems, WFCS2004, pp. 187-192.

1992

82. *Gialelis, J.V., Karagiannidis, J.K., Kapsalis, V.D., Prentzas, L.K. and Georgopoulos, C.J.*, "ISDN-to-Infrared Link Interface," IEEE International Symposium on Industrial Electronics, ISIE1992, vol.2, pp. 786 – 788.

12. Citations

http://scholar.google.gr/citations?view_op=list_works&hl=en&user=6FLWVNAAAAAJ (google scholar = 603, h-index = 13)

[http://ieeexplore.ieee.org/search/searchresult.jsp?action=search&sortType=&rowsPerPage=25&searchField=Search_All&matchBoolean=true&queryText=\(gialelis\)](http://ieeexplore.ieee.org/search/searchresult.jsp?action=search&sortType=&rowsPerPage=25&searchField=Search_All&matchBoolean=true&queryText=(gialelis))

<https://www.scopus.com/authid/detail.uri?authorId=8374256000>