

CURRICULUM VITAE

Personal

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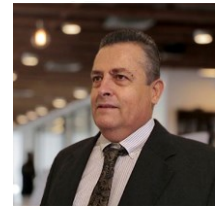
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Date of Birth: 29-4-1965

Nationality: Greek



Education

- ◆ **Diploma and M.Sc. in Electronics and Automation** (*integrated master*), Dept. of Computing Machines and Devices, Technical University of Sofia, Bulgaria, 1989.
- ◆ **Ph.D. in Computer Science**, for research in Computer Science & Robotics, Turing Institute, Dept. of Computer Science, University of Strathclyde, Glasgow, Scotland, U.K, 1993.

Distinctions and awards

- ACM Senior member (2007) (Member since 2001, No. UK69562).
- IEEE Senior member (2004) (Member since 1998, No. 40301793).
- Honorary certificate in recognition of my voluntary services in technology sector in the Olympics Games in Athens 2004.
- IKY scholarship (Greek State Scholarships Foundation) under SOCRATES: Higher Education (IC code No: 29090-IC-4-1999-1-GR-ERASMUS-EPS-1) (2000/2001).
- SERC (Science and Engineering Research Council, U.K.) scholarship (Award Ref. No. 90801402) (1990-1993).

Employment record

2021- Professor, Dept. of Digital Systems, University of Thessaly, Greece.

2019-2021 Associate Professor, Dept. of Digital Systems, University of Thessaly, Greece.

2006-2019 Associate Professor, Dept. of Computer Engineering, Technological Educational Institute of Thessaly, Larissa, Greece.

2002-2006 Assistant Professor, Dept. of Information Technology and Telecommunications, Technological Educational Institute of Larissa, Greece.

1999-2007 Contract Lecturer in Computer Science, University of Thessaly, Volos, Greece.

1998-2003 Self-employed (freelancer) Electrical-Electronics Engineer, Volos, Greece.

1997-2000 Lecturer in Computer Science, North European Studies College, Larissa, Greece.

1996-2002 Contract Lecturer in Computer Science, Technological Educational Institute of Larissa, Greece.

1987-1995 Managing Director of the ADAMs Machines Constructions Company, Volos, Greece.

Academic administrative experience

- Deputy Director of the M.Sc. course in Modern Communication Systems & Internet of Things Department of Digital Systems, University of Thessaly, Greece (2021 – 2022).
- Director of the Computer Systems Research Laboratory (CSLab - Computer Systems Laboratory, <https://cslab.ds.uth.gr>) at the Department of Digital Systems, University of Thessaly, Greece (2020 - today).
- Deputy President of the Department of Computer Engineering, Technological Educational Institute of Thessaly, Greece (2018-2019).
- Director of Computer Systems Engineering Dept. Sector, Department of Computer Engineering, Technological Educational Institute of Thessaly, Greece (2013-2014).
- Deputy Director of the Center for Technological Research (KTE) of Thessaly, Greece (2011-2014).

- Head of the Research Department of Informatics Applications of the Center for Technological Research (KTE) of Thessaly, Greece (2011-2014).
- Deputy Director of the School of Technological Applications, Technological Educational Institute of Larisa, Greece (2011-2012).
- Head of the Department of Information Technology & Telecommunications, Technological Educational Institute of Larisa, Greece (2008-2012).
- Deputy Head of the Department of Information Technology & Telecommunications, Technological Educational Institute of Larisa, Greece (2007-2008).
- Director of Computer Systems Architecture & Infrastructure Dept. Sector, Department of Information Technology & Telecommunications, Technological Educational Institute of Larisa, Greece (2006-2008).
- Deputy Director of Computer Systems Architecture & Infrastructure Dept. Sector, Department of Information Technology & Telecommunications, Technological Educational Institute of Larisa, Greece (2002-2005).
- Deputy Head of the Department of Information Technology & Telecommunications, Technological Educational Institute of Larisa, Greece (2002-2003).

Industrial experience

Long-term professional experience (since 1987) as an Electronics and Automation Engineer in the industrial design and innovation, and Managing Director of the ADAMs Machines Constructions Company, Volos, Greece, in the design, construction and automation of electromechanical and mechatronic systems.

1998-2003 Self-employed (freelancer) certified Electrical-Electronics Engineer. Professional activities: design and development of electromechanical, mechatronic and computer-based control systems, and providing services to industry, businesses and educational and research institutions.

1987-1995 Managing Director of the ADAMs Machines Constructions Company, Volos, Greece (www.adam.com.gr). Main responsibilities: company's administration, design and automation of the machinery and the production, contribution to research programmes and patents acquisition for machines innovations.

Research interests

Computer systems design and applications, computer architectures, operating systems, real-time systems, computer-based control, control software, robotics, mechatronics, modelling and simulation methodologies

Research experience

Long-term research activity since 1993 in projects related to Operating Systems, Computer Architectures, Control Systems and Robotics. Research member and Principal Investigator of national and European research programmes and projects.

Indicative positions of responsibility and member of research units:

- Director of the Computer Systems Research Laboratory (CSLab - Computer Systems Laboratory, <https://cslab.ds.uth.gr>) at the Department of Digital Systems, University of Thessaly, Greece (2020 - today).
- Member of the Research Laboratory of Computer Engineering & Control Systems (CECS Lab), Department of Informatics Engineering, TEI of Thessaly, Greece (2015-2019).
- Deputy Director of the Center for Technological Research (KTE) of Thessaly, Greece (2011-2014).
- Head of the Research Department of Informatics Applications of the Center for Technological Research (KTE) of Thessaly, Greece (2011-2014).
- Principal Investigator of the Technological Research Center (KTE) of Thessaly, Greece (2004-2019).
- Member of the Research Laboratory of Informatics Applications in Spatial Design, Department of Spatial Planning & Regional Development, University of Thessaly, Greece (1999-2002).
- Member of the Biometrics Research Laboratory, Department of Agriculture, University of Thessaly, Greece (1999-2001).
- Member of the Turing Institute, Department of Computer Science, University of Strathclyde, Glasgow, U.K. (1989-1993).

Indicative research projects:

- Research partner in H2020 GeoUS (2020-2022) research project: "Geothermal Energy in Special Underground Structures". Faculty of Electrical Engineering and Computer Science, VSB – Technical University of Ostrava. (<http://geous.vsb.cz/>) http://geous.vsb.cz/other_partners.html
- Team leader in research project "*Development of a novel Intelligent Lighting Control system with Imaging Sensor for optimum daylight exploitation and energy saving*" (Project leader: Prof. Topalis, F.), within the framework of **Thales**, at the Dept. Computer Science and Engineering, Technological Educational Institute of Thessaly, Greece (Budget: 520.000,00€) (2013-2015).
- Researcher in research project: "*Intelligent monitoring of traffic load and flow of vehicular crossroads with image and video processing techniques*" (Project leader: Prof. Ventzas D.), within the framework of **EPEAEK II** (Archimedes III), for the improvement of research in Technological Educational Institutes, in the Dept. of Computer Science and Engineering, Technological Educational Institute of Thessaly, Greece (Budget: 90.000,00€) (2012-2015).
- RRC 2014 DT 1 – TECHNICAL UNIVERSITY OF OSTRAVA (2015)
International research team member (RRC/07/2014). Research project: "*Support for science and research in the Moravian-Silesian Region: applications in telemedicine*". Responsible Investigator: Ing. Marek Penhaker, Ph.D., Technical University of Ostrava, Czech Republic. (Financed from the budget of the Moravian-Silesian Region).
- RRC 2013 DT 1 – TECHNICAL UNIVERSITY OF OSTRAVA (2014)
International research team member (RRC/05/2013). Research project: "*Support for science and research in the Moravian-Silesian Region: applications in telemedicine*". The project aimed at applications in telemedicine.. Responsible Investigator: Ing. Marek Penhaker, Ph.D., Technical University of Ostrava, Czech Republic. Participants: prof. Ali Selamat, prof. Silvia Conforto, Dr. Daniele Bibbo, prof. George Adam, Dr. Georgia Garani, Dr. Michal Gal, Dr. Branko Babušiak, Dr. Joulien Poujout, prof. Norbert Noury, prof. Rado Hudak, Dr. Jaroslav Majernik (Budget: 76.000,00€).
- Principal Investigator in research project "*Communication networks in distributed systems*" of a **joint Research and Technological project between Greece and Czech Republic 2005-2007**, Greek Secretariat for Research and Development, Call for Collaborative R&D projects, at the Dept. of Information Technology and Telecommunications, Technological Educational Institute of Larissa, Greece (Budget: 8.960,00€) (2005-2007).
- Senior researcher in research project "*PerLA: Intelligent Personalized Learning Assistants*" (Project leader: Assist. Prof. K. Karapoulios), within the framework of **EPEAEK II** (Archimedes II), for the improvement of research in Technological Educational Institutes, at the Dept. of Informatics and Telecommunications, Technological Educational Institute of Larissa, Greece (2005-2006).
- Senior researcher in research project "*ProsAgent: Pilot application and processing of visual tool for the production of intelligent agent systems using in the control of industrial production processes based on a team-oriented concept and the overall reference architecture PROSA*" (Project leader: Prof. Ch. Hartonas), within the framework of **EPEAEK II** (Archimedes II), for the improvement of research in Technological Educational Institutes, in the Dept. of Informatics and Telecommunications, Technological Educational Institute of Larissa, Greece (2004-2006).
- Senior researcher in research project "*Improving the procedure of computer aided design and the construction and production of innovative designs and final products using CNC machines*". **EPEAEK II** – Archimedes - (Project leader: Prof. I. Kakaras), Technological Educational Institute of Larissa, Larissa, Greece (Budget: 48.596,00€) (2004-2006).
- Participation in the submission of an INTAS research proposal (**INTAS Open Call 2001**, project registration no: 390), by the Laboratory of Computer Applications in Spatial Planning, Dept. of Planning & Regional Development, University of Thessaly, Volos, Greece (2001).
- Participation as a collaborating researcher in the submission of a research proposal for a **joint Research and Technological project between Greece and Russian Federation 2001-2003**, by the Laboratory of Computer Applications in Spatial Planning, Dept. of Planning & Regional Development, University of Thessaly, Volos, Greece (2001).
- Participation as a collaborating researcher (20%) in the submission of a research proposal for a **joint Research and Technological project between Greece and Slovenia 2000-2001**, by the Laboratory of Biometry, Dept. of Agriculture, University of Thessaly, Volos, Greece (2000).
- Participation in the submission of an INTAS research proposal (INTAS Open Call 2000), by the Laboratory of Biometry, Dept. of Agriculture, University of Thessaly, Volos, Greece (2000).
- Team leader in the realization of the Quality Assurance programme (**TUV Austria- ISO 9002:1994**) in Adam Machines Constructions Company in Volos, Greece (2000).

- Project leader in the implementation of the Safety procedures (CE) in the production lines (project code: 3000710064), in the framework for the improvement of medium size enterprises (**MME 1994-99, B' European Community Framework**), funded with 20.000.000 drh, in Adams Machines Constructions Company in Volos, Greece (1999).
- Participation in the dispatching and implementation of the Enterprises Support programme for small and middle range companies (M.M.E. 1994-99, project code: 3000710064), in Adam Machines Constructions Company in Volos, Greece (1999).
- Team leader & coordinator in the acquisition of several patents for Adams Machines Constructions Company new design inventions (e.g. lime stirring up machine patent No: 1002880/1998), issued by the **Greek Industrial Property Organization** (OBI) and recognized internationally (<http://gr.espacenet.com>), Volos, Greece (1998-2001).

Indicative experience and research results in software design and systems development:

Extensive experience and contribution in the design and development of computer-based control systems and control software, with applications in industry and educational institutions.

- **BBB-DALI** (2015): Video camera control system (CCD Prosilica) with microcontroller (BeagleBone Black). (Dept. of Informatics Engineering, Technological Educational Institute of Thessaly, Greece, <https://doi.org/10.3390/electronics8010033>).
- **TDAPTool** (2015): Application for traffic data analysis and processing. (Dept. of Informatics Engineering, Technological Educational Institute of Thessaly, Greece, www.researchgate.net/publication/263384392_FPGA_design_of_a_camera_control_system_for_road_traffic_monitoring).
- **RoboPress** (2005): Automatic production system for building products. (Dept. of Informatics and Telecommunications, Technological Educational Institute of Larissa, Greece, <https://doi.ieeecomputersociety.org/10.1109/ICITA.2005.2>).
- **InfoSystem** (2001): Educational application for the organization and management of general knowledge information utilized in teaching procedures (University of Thessaly, Dept. of Primary education, <https://pdfs.semanticscholar.org/3f20/0401d83c97ede2fa9112a18dd1b5196b21a7.pdf>).
- **GisTool** (1999): Research and educational application for cartographic data management and processing (University of Thessaly, Dept. of Planning & Regional Development, Laboratory of Computer Applications in Spatial Planning, <http://ir.lib.uth.gr/xmlui/handle/11615/25336>).
- **AgroModel** (1999): Research and educational application for agricultural database management in the world wide web (University of Thessaly, Dept. of Agriculture, Laboratory of Biometry, http://evaonline.euro.org/News/19990412123036_42.html).
- **QMT00L** (1993): System application for qualitative modelling and simulation of robotic and industrial systems (University of Strathclyde, Dept. of Computer Science, Turing Institute, <https://ieeexplore.ieee.org/document/351207>).
- **Hyperpic** (1991): Graphical interface for programming and control of Unimation Puma Robots. (University of Strathclyde, Dept. of Computer Science, Turing Institute).
- **Master** (1990): IBM AML\Æ Interpreter for IBM IBM 7535 robot. (University of Strathclyde, Dept. of Computer Science, Turing Institute).
- **GeAsm** (1989): Application software for control of induction motor rotation based on MC68705R3 in Assembly (CM65x Cross macro Assembler) (Technical University of Sofia, Dept. of Computing Machines and Devices).

Technical skills in programming and development software

In Windows & Unix/Linux platforms, such as: MS Office, Informix SQL/4GL, MS Visual Studio.NET, MS Visual Studio, ESRI ArcInfo/ArcView, IDRISI, CorelDraw, AutoCAD, SPSS, MATLAB, Simulink, LabView, OrCAD, ARENA, MS Project, WorkBench, Mathematica, WinAsm (MASM32), Max+plusII, Leonardo-Spectrum, ModelSim, 20-Sim, QUARTUS, Agilent ADS, RoboDK, RobotStudio, etc.
Intel Assembly x86, Motorola Assembly, IBM (SCARA Robot) AML\Æ, PostScript, Basic, Fortran, Pascal, Prolog, ArcInfo AML, SQL/4GL, C, C++, Visual C++, Visual Basic, Java, Visual J++, HTML, VHDL, PLC (Hitachi series) programming, etc.

Evaluator and committees' expert

Evaluator in European Research Projects

- ✓ **H2020-MSCA-PF (ex IF) 2021-2024**
Expert and independent evaluator in H2020-MSCA-PF (Marie Skłodowska-Curie Postdoctoral Fellowships).
- ✓ **RESTART 2016-2020 Work Programme_EN-V10**
Expert and independent evaluator in (CONCEPT/0521/0041) στο IRIS-RIF (Cyprus Research and Innovation Foundation) (Nov2021).
- ✓ **H2020-MSCA-IF 2016-2020**
Expert and independent evaluator in H2020-MSCA-IF (Marie Skłodowska-Curie Individual Fellowships) (2016/2017/2018/2019/2020).
- ✓ **H2020-MSCA-ITN 2015, 2019**
Expert and independent evaluator in H2020-MSCA-ITN (Marie Skłodowska-Curie Innovative Training Networks) (2015/2019).
- ✓ **Executive Agency for Competitiveness & Innovation (EACI)**
Independent expert and projects evaluator for the Executive Agency for Competitiveness and Innovation (EACI) (<http://ec.europa.eu/eaci/>) (2012-today).
- ✓ **FP7 Expert**
Evaluator for PEOPLE 2013 in the Seventh Framework Programme (FP7) for Research & Innovation (<https://ec.europa.eu/research/participants/portal/page/people>) (2012-today).
- ✓ **Safer Internet Programme 2009-2013**
Independent expert and projects evaluator in the European framework of Safer Internet Programme 2009-2013 (http://ec.europa.eu/information_society/activities/sip/funding/experts/index_en.htm) (2009).
- ✓ **Evaluators database EVAL-INCO for International cooperation**
Member of the EVAL-INCO evaluators' database of Joint Calls of regional ERA-NETs (<http://www.eval-inco.pt-dlr.de/index.php?id=2>) (2008-today).
- ✓ **ICT PSP Expert**
Independent expert of European Commission CIP Policy Support Programme (http://ec.europa.eu/information_society/activities/ict_psp/index_en.htm) (2008-2012).
- ✓ **European Commission Directorate-General for Education and Culture (Socrates Programme)**
Socrates Programme expert and proposals evaluator in the framework of the European Socrates Programme: Co-ordination and Horizontal Actions (reference EAC/60/02) (<http://europa.eu.int/comm/education/socrates.html>) (2003-today).
- ✓ **MONET European Network of Excellence (<http://MONET.aber.ac.uk>)**
Member of the European Network of Excellence (Monet is a European Network of Excellence and is composed of academics, industrialists and others interested in promoting emergent Artificial Intelligence technologies into industry) και του BRIDGE Task group (working on fault detection and diagnosis) (Aberystwyth University) (2003-2007).
(<http://monet.aber.ac.uk:8080/monet/members/memberlist.htm>)
- ✓ **INTAS International Association (<https://cordis.europa.eu/programme/id/IC-INTAS>)**
INTAS expert and proposals evaluator of research projects & networks of the International Association for the promotion of the cooperation with scientists from the New Independent States of the former Soviet Union (2001-today).
 - “*Evolutionary Probabilistic Circuit Design*” (INTAS Ref. Nr. 03-56-114, INTAS Innovation Grant 2003)
 - “*Self Healing of Complex System-on-Package*” (INTAS Ref. Nr. 03-51-6627, INTAS Open Call 2003)
- ✓ **European Digital Content on Global Networks (eContent)**
eContent proposals evaluator in the framework of the European programme eContent for the support of the technical evaluation of the proposals (<http://www.cordis.lu/econtent>) (2001-today).

Journals Board member

- **MDPI *Applied Sciences*** (www.mdpi.com/journal/applsci/special_issues/G1HH6676GU) Special Issue Editor “Advancements in Computer Architectures and Real-Time Systems for Robotics and Mechatronics” (09/2024-5/2025)
- **MDPI *Applied Sciences*** (www.mdpi.com/journal/applsci/special_issues/25N7XR31FO) Special Issue Editor “Intelligent Transportation Systems in Smart Cities” (05/2023-5/2024)
- **MDPI *Electronics*** (www.mdpi.com/journal/electronics/special_issues/computing_systems) Special Issue Editor “High-Performance Embedded Computing” (05/2022-12/2022)

- **MDPI Computers** (www.mdpi.com/journal/computers/special_issues/RTE_IoT) Special Issue Editor “Real-Time Embedded Systems in IoT” (20/2022-10/2022)
- **Inderscience International Journal of High Performance Systems Architecture** (www.inderscience.com/jhome.php?jcode=ijhpsa) Editorial Board member (2021-today).
- **SCIRP Advances in Internet of Things** journal (www.scirp.org/journal/ait), Editorial Board member (2021-today).
- **MDPI Electronics** (www.mdpi.com/journal/electronics) Topics Board member (2020-today).
- **MDPI Electronics** (https://www.mdpi.com/journal/electronics/special_issues/RT_Embedded_Systems) Special Issue Editor “Real-Time Embedded Systems: Architectures, Software and Applications” (01/2021-10/2021)
- **MDPI Computers** (www.mdpi.com/journal/computers/special_issues/RealTime_IoT) Special Issue Editor “Real-Time Systems in Emerging IoT Embedded Applications” (12/2020-06/2021)
- **Inderscience International Journal of Instrumentation Technology** (www.inderscience.com/jhome.php?jcode=ijit) Editorial Board member (2011-today).
- **ACTA International Journal of Computers & Applications** (www.actapress.com/Content_of_Journal.aspx?journalID=65) Editorial Board member (2004-2008).
- **AMSE Advances in Modelling, Series D: Computer Science and Statistics** (<https://amsemodelling.com>) AMSE Greece representative (2004-2006).
- **ACM Journal of Computing Reviews** (http://computingreviews.com/browse/browse_reviewers.cfm?reviewerlast=Adam&reviewerfirst=George&reviewer_id=122001) Reviewers Board member, 53 reviews (2001-2013).

Journals reviewer

- **Springer Nature Real Time Systems** (2024-).
- **Wiley Journal of Engineering** (2023-).
- **Elsevier Int. Journal of Systems and Software** (2022-).
- **Elsevier Int. Journal of Systems Architecture** (2022-).
- **IEEE Access** (2021-).
- **SCIRP Advances in Internet of Things** journal, Editorial Board member (2021-).
- **Inderscience International Journal of High Performance Systems Architecture** (2020-).
- **HIR Healthcare Informatics Research** (2020-).
- **ACM Transactions on Internet Technology** (2020-).
- **MDPI Applied Sciences, Electronics, Sensors, Robotics** (2019-).
- **Springer Neural Computing and Applications** (2017-).
- **Elsevier Microelectronics Journal** (2017-).
- *Simulation: Transactions of the Society for Modeling and Simulation International* (2016-).
- **Elsevier Journal of Applied Logic** (2014-).
- **SCIENCEDOMAIN British Journal of Applied Science & Technology** (2013-).
- **IEEE Systems** (2012-).
- **Inderscience International Journal of Instrumentation Technology**, Editorial Board member (2011-).
- **Elsevier Information Fusion** (2009-).
- **IEEE/ASME Transactions on Mechatronics** (2006-).
- **ACTA International Journal of Computers & Applications**, Editorial Board member (2004-2008).
- **AMSE Advances in Modelling, Series D: Computer Science and Statistics** (2003-).
- **IFAC AUTOMATICA** (<http://www.autsubmit.com/documents/nonhtml/Revlst2003.pdf>) (2003-).
- **IEEE Computer** (<http://csdl.computer.org/dl/mags/co/2003/12/rz102.pdf>) (2002-).
- **ACM Journal of Computing Reviews** (2001-2013).
- **IEEE Transactions on Automatic Control** (<http://control.bu.edu/ieee/database/>) (2000-).

Conferences Chair, Committee member and reviewer

- ✓ **Institute of Electrical and Electronic Engineers (IEEE, www.ieee.org)**
 Technical committee member, International program committee member and reviewer in:
 - 32nd International Conference on Electronics Circuits and Systems (ICECS 2025).
 - 10th International Conference on Control, Decision and Information Technologies (CoDIT 2024).
 - International Symposium on Systems and Control in Aeronautics and Astronautics (ISSCAA), since 2010.
 - Mediterranean Conference on Control and Automation (MED), since 2008.
 - International Conference on Mechatronics (ICM), since 2004.
 - International Workshop on Robot Motion and Control (ROMOCO), since 2004.

- International Symposium on Circuits and Systems (ISCAS), since 2004.
- ✓ **International Association of Science & Technology for Development (IASTED, www.iasted.org)**
 Technical committee member, International program committee member and reviewer in:
 - International Conference on Robotics and Control Systems (RCS), since 2016.
 - International Conference on Intelligent Systems and Robotics (ISAR), since 2016.
 - Int. Conf. on Modelling, Simulation and Optimization (MSO), since 2003.
 - Int. Conf. on Applied Simulation and Modeling (ASM), since 2002.
 - Int. Conf. on Modelling and Simulation (MS), since 2002.
 - Int. Conf. on Modelling, Identification and Control (MIC), since 2001.
- ✓ **International Federation of Automation and Control (IFAC, www.ifac.org)**
 Technical committee member, International program committee member and reviewer in:
 - IFAC World Congress (2020)
 - International Conference on Methods and Models in Automation (MMAR), since 2007.
 - Workshop on Programmable Devices and Embedded Systems (PDeS), since 2005.
- ✓ **World Scientific and Engineering Academy and Society (WSEAS, www.wseas.org)**
 Member of the international scientific committee, programme chair and reviewer in:
 - Int. Conf. on Wavelet Analysis and Multirate Systems (WAMUS) (2004).
 - World Conference on Computers (CSCC) (2000).
- ✓ **Other**
 Member of the international technical programme committee or steering committee and reviewer in:
 - 5th International Conference on Electrical, Electronics and Computing Technology (EECT 2025).
 - 7th Asia Pacific Information Technology Conference (APIT 2025).
 - 8th International Conference on Smart Grid and Smart Cities (ICSGSC2024).
 - Global Summit on Mechatronics, Robotics and Automation (GSMRA 2024, 2025).
 - 3rd World Conference on Artificial Intelligence, Machine Learning, and Data Science (WCAIMLDS 2024).
 - International Conference on Automation Engineering and Artificial Intelligence (ICAEAI 2024).
 - International Conference on Advances in Electrical Engineering and Computer Applications (AEECA 2023-2025).
 - 4th International Conference on Advanced Electrical and Energy Systems (AEES 2023, 2024).
 - International Conference on Cyber Security and Information Engineering (ICCSIE 2023-2025).
 - 6th International Conference on Education Network and Information Technology (ICENIT2023-2025).
 - 11th International Conference on Information Technology in Education (ICITE 2023).
 - International Conference on Mechatronics and Mechanical engineering (ICMME 2023-2025).
 - 2nd International Conference on Intelligent Controls and Robotics (ICICR 2023).
 - IEEE Asia-Pacific Conference on Image Processing, Electronics and Computers (IPEC 2023-2025).
 - International Conference on Intelligent Transportation and Smart Cities (ICITSC 2023, 2024, 2025).
 - International Conference on Advanced Materials and Equipment Manufacturing (AMEM 2022).
 - International Conference of Information and Communication Technologies in Ecuador (TICEC 2021-2024).
 - 21st Pan-Hellenic Conference on Informatics (PCI) (2017).
 - 7th Balkan Conference in Informatics (BCI) (2015).
 - 6th International Conference from Scientific Computing to Computational Engineering (IC-SCCE) (2014).
 - 6th Balkan Conference in Informatics (BCI) (2013).

Organization of international conferences and invited keynote speaker presentations

- Third International Conference on Internet of things, Data and Cloud Computing (ICC 2021), 28-29 June 2021, Cambridge City, United Kingdom. (invited keynote speaker: “Real-Time Systems in IoT-Embedded Applications”).
- IFAC Workshop on Programmable Devices and Embedded Systems (PDeS), Ostrava, Czech Republic, February 11-13, 2003 (“Industrial Embedded Systems”).
- 5th WSES/IEEE Multiconference CSCC-MCP-MCME, Rethymno, Crete, Greece, July 9-11, 2001 (in session talk “Instrumentation and Measurements”).
- IASTED International Conference on Modelling and Simulation, Pittsburgh, Pennsylvania, USA, May 15-17, 2000 (round table contribution).
- WSEAS CSCC Circuits, Systems, Communications and Computers, Technical Committee (2001-)
- IASTED MS Modelling and Simulation, Technical Committee (2000-)
- 1st International Robot Olympics (1990) Glasgow, U.K., Technical Assistant (https://en.wikipedia.org/wiki/First_Robot_Olympics)

International research collaborations

- Technical Univ. of Ostrava, Czech Republic (Dept. of Measurements and Control, prof. Vilem Srovnal and Dept. of Cybernetics and Biomedical Engineering, prof. Marek Penhaker and prof. Jiri Koziorek)

- San Diego State Univ., USA (Dept. of Electrical and Computer Engineering, prof. Gordon Lee)
- North Carolina State Univ., USA (Dept. of Electrical and Computer Engineering, prof. Edward Grant)
- Strathclyde Univ., U.K. (Dept. of Computer Science, prof. Barry Shepherd)

Memberships

- **Scholar-Hub** a platform for international research institutions, experts and scholars (2024-)
- **IAAST** International Association of Applied Science and Technology μέλος του Publishing Committee (2022-)
- **SCIRP** Scientific Research Publishing reviewer and member of the Editorial Board in *Advances in Internet of Things* journal (2021-)
- **QS Intelligence Unit** QS World University Rankings 2021 University Rankings Evaluator (2021-)
- **MDPI** Multidisciplinary Digital Publishing Institute articles reviewer and member of Topics Board for *Electronics* journal (2019-)
- **MONET** European Network of Excellence (Aberystwyth University) (2003-2007).
- **WSEAS** World Scientific and Engineering Academy and Society (2003-).
- **IFAC** International Federation of Automation and Control, Affiliate member and articles reviewer in **IFAC AUTOMATICA** (2003-).
- **AMSE** Association for the Advancement of Modelling and Simulation (2002-), AMSE representative for Greece, and articles reviewer in **AMSE Advances in Modelling, Series D: Computer Science and Statistics** (2004-2006).
- **ACM** (M'01, SM'07) (Member No UK69562) Association for Computing Machinery (2001-), **ACM SIGSIM** Special Interest Group on Simulation and Modelling (2001-2003), and articles reviewer in **ACM Journal of Computing Reviews** (2001-2013) and **ACM Transactions on Internet Technology** (2020-).
- **ESI** Hellenic Statistical Society (2000-)
- **IBS** International Biometrics Society (2000-2001)
- **IASTED** International Association of Science & Technology for Development (Member ID 2797) (2000-), member of the **IASTED MS** Technical Committee on Modelling and Simulation Conferences (2000-), and member of the Editorial Board in **IASTED/ACTA Press Int. Journal of Computers and Applications** (2004-2008).
- **HellasGIs** Hellenic GIS Society (1999-)
- **IEEE** (M'98, SM'04) (Member No 40301793) **IEEE Robotics & Automation Society** (1998-), **IEEE Computer Society** (2000-) and articles reviewer in **IEEE Computer**, and **IEEE Control Systems Society** (2002-).
- **Greek Computer Society** (1996-) (Member No 2450)
- **HSBG** Hellenic Society of British Universities' Graduates (1995-)
- Hellenic Society of Electrical & Mechanical Engineers (1994-)
- Technical Chamber of Greece (1994-)

Publications

The published research focuses in Computer Science and Computer Engineering, particularly in Computer Systems Organization and Architecture, Operating Systems, and their optimal design (modelling) and development with simulation tools and techniques. Older publications focus mainly on computer architectures and control systems in industry and robotics, software development and control, and design optimization and development through simulation. Newer publications focus primarily on the design and development of computer systems architectures, their programming and operation, real-time architectures and real-time operating systems, integrated systems with microcontrollers and their programming at system level (kernel).

A large part of the published scientific work combines research into computer systems architecture, operating systems and control software engineering.

Ph.D. Dissertation and Diploma Thesis

- Adam, G. K., "Modelling robot tasks in interactive workcells". PhD Thesis, Department of Computer Science, University of Strathclyde, Glasgow, Scotland, UK, February 1993.
- Adam, G. K., "Development of a microcomputer device for the control of a frequency regulator". Diploma Thesis, Department of Computing Machines and Devices, Higher Institute of Mechanical and Electrical Engineering "VI Lenin" (today Technical University of Sofia), Sofia, Bulgaria, June 1989.

Publications in Journals

- J34. **Adam, G.K.**; Tsangrassoulis, A. Design and Development of a Low-Cost Educational Platform for Investigating Human-Centric Lighting (HCL) Settings. *Computers* 2024, 13, 338. <https://doi.org/10.3390/computers13120338>
- J33. **Adam, G.K.** Timing and Performance Metrics for TWR-K70F120M Device. *Computers* 2023, 12, 163. <https://doi.org/10.3390/computers12080163>
- J32. **George K. Adam**, Real-time performance analysis of distributed multithreaded applications in a cluster of ARM-based embedded devices, *Inderscience International Journal of High Performance Systems Architecture*, 2022, Vol.11, No.2, 105 – 116. DOI: <https://dx.doi.org/10.1504/IJHPSA.2022.10052765>
- J31. **Adam K. George**, Parallelised Multithreaded Applications on a 4-core Field Programmable Gate Array (FPGA) Architecture, *Bentham Science Recent Advances in Electrical & Electronic Engineering*, 2022; 15(3), 255-264. DOI: <https://dx.doi.org/10.2174/2352096515666220603165247>
- J30. **Adam, G.K.** Co-Design of Multicore Hardware and Multithreaded Software for Thread Performance Assessment on an FPGA. *Computers* 2022, 11, 76. DOI: <https://doi.org/10.3390/computers11050076>
- J29. **George K. Adam**, Multithreading on reconfigurable hardware: a performance evaluation approach of a multicore FPGA architecture, *Inderscience International Journal of High Performance Systems Architecture*, 2021, Vol.10, No.2, 105 – 116. DOI: [10.1504/IJHPSA.2021.119154](https://doi.org/10.1504/IJHPSA.2021.119154)
- J28. **Adam, G.K.**; Petrellis, N.; Doulos, L.T. Performance Assessment of Linux Kernels with PREEMPT_RT on ARM-Based Embedded Devices. *MDPI Electronics* 2021, 10, 1331. DOI: <https://doi.org/10.3390/electronics10111331>
- J27. **Adam, G.K.** Real-Time Performance and Response Latency Measurements of Linux Kernels on Single-Board Computers. *Computers* 2021, 10, 64. DOI: <https://doi.org/10.3390/computers10050064>
- J26. Petrellis, N.; **Adam, G.K.** Symptom Tracking and Experimentation Platform for Covid-19 or Similar Infections. *Computers* 2021, 10, 22. DOI: <https://doi.org/10.3390/computers10020022>
- J25. **Adam, G.K.**; Petrellis, N.; Kontaxis, P.A.; Stylianos, T. COTS-Based Real-Time System Development: An Effective Application in Pump Motor Control. *Computers* 2020, 9, 97. DOI: <https://doi.org/10.3390/computers9040097>
- J24. Garani, G., **Adam, G.K.** A semantic trajectory data warehouse for improving nursing productivity. *Springer Health Information Science and Systems* 8, 25 (2020). DOI: <https://doi.org/10.1007/s13755-020-00117-5>
- J23. **Adam, G.K.**; Petrellis, N.; Garani, G.; Stylianos, T. COTS-Based Architectural Framework for Reliable Real-Time Control Applications in Manufacturing. *MDPI Applied Sciences* 2020, 10, 3228. DOI: <https://doi.org/10.3390/app10093228>
- J22. **Adam, G.K.** DALI LED Driver Control System for Lighting Operations Based on Raspberry Pi and Kernel Modules. *MDPI Electronics* 2019, 8(9), 1021. DOI: <https://doi.org/10.3390/electronics8091021>
- J21. **Adam, G.K.**; Kontaxis, P.A.; Doulos, L.T.; Madias, E.-N.D.; Bouroussis, C.A.; Topalis, F.V. Embedded Microcontroller with a CCD Camera as a Digital Lighting Control System. *MDPI Electronics* 2019, 8(1), 33. DOI: <https://doi.org/10.3390/electronics8010033>
- J20. Tzortzios S, Gitsakis N, **Adam G.** Management of huge amounts of data using qualitative and statistical modeling: an agricultural case study. *Biometrics & Biostatistics International Journal* 2019;8(1):30-31. DOI: [10.15406/bbij.2019.08.00266](https://doi.org/10.15406/bbij.2019.08.00266)
- J19. Georgia Garani, **George K. Adam** and Dimitrios Ventzas, “Temporal data warehouse logical modelling”, *Inderscience Int. J. Data Mining, Modelling and Management*, vol. 8, no. 2, 144-159, 2016. DOI: <https://doi.org/10.1504/IJDMMM.2016.077156>
- J18. Ventzas D., **Adam G.**, Garani G., Kokkinos C., and Evangelidis G., “An enhanced GIS for traffic cross-roads-traffic big data needs”, *International Journal of Emerging Technology and Advanced Engineering*, vol. 4, issue 11, 420-429, Nov.2014.
- J17. N. Petrellis, **G. Adam**, D. Ventzas, “Monotonic error elimination in subrange A/D converters”, *Journal of Circuits, Systems, and Computers*, vol. 22, no. 1, World Scientific Publishing, pages 1250073-1 - 1250073-20, 2013. DOI: <https://doi.org/10.1142/S0218126612500739>
- J16. Nikos Petrellis, **George Adam**, Dimitrios Ventzas, “A real-time self-calibrated current mirror for wide range current reference generation, signal reproduction and delaying”, Elsevier *Microelectronics Journal*, vol. 43, no. 3, 225-234, 2012. DOI: <https://doi.org/10.1016/j.mejo.2011.12.001>
- J15. Georgia Garani and **George K. Adam**, “Qualitative models in the design and construction of an autonomous hydraulic press machine”, *International Journal of Control and Intelligent Systems*, ACTA Press, vol. 37, no. 1, 15-20, 2009. DOI: [http://dx.doi.org/10.2316/Journal.201.2009.1.201-1957](https://dx.doi.org/10.2316/Journal.201.2009.1.201-1957)
- J14. Georgia Garani and **George K. Adam**, “Qualitative modelling at the design of concrete manufacturing machinery”, *International Journal of Computers and Applications*, Taylor & Francis Online, ACTA

Press, vol. 30, no. 4, 325-330, 2008. DOI: <http://dx.doi.org/10.2316/Journal.202.2008.4.202-2328>
<https://doi.org/10.1080/1206212X.2008.11441912>

- J13. **George K. Adam**, Georgia Garani, Nicholas Samaras, Vilem Srovnal, Jiri Koziorek, Vladimir Kasik, "Embedded processor control of a lime machine", *International Journal of Systems Applications, Engineering & Development*, NAUN University Press, vol. 2, no. 1, 6-12, 2008. (<http://www.naun.org/main/UPress/saed/saed-25.pdf>)
- J12. Georgia Garani and **George K. Adam**, "Qualitative methods in control of industrial production units", *WSEAS Transactions on Computers*, ISSN: 17109-2750, issue 9, vol. 5, 2025-2030, September 2006.
- J11. **George K. Adam**, "Process scheduling evaluations using multithreaded software modules", *AMSE Advances in Modelling, Series D: Computer Science and Statistics periodical*, ISSN 1291-5211, AMSE Press, vol. 10, no. 3, 13-26, 2005.
- J10. C.V. Karapoulios, **G. K. Adam**, S. N. Xanthakis, "Graph homomorphisms and qualitative software system analysis", *WSEAS Transactions on Information Science & Applications*, ISSN: 1790-0832, issue 7, vol. 2, 859-867, July 2005.
- J9. **George K. Adam** and Constantinos Karapoulios, "Model-based qualitative studies of complex manufacturing systems", *WSEAS Transactions on Information Science and Applications*, ISSN 1790-0832, WSEAS Press, vol. 1, issue 1, 88-93, July 2004.
- J8. **G.K. Adam** and V.G. Pappas, "Geographical Image Processing Using GisTool", *International Journal of Computers and Applications*, ISSN 1206-212X, Taylor & Francis Online, ACTA Press, vol. 26, no. 2, 126-131, 2004. DOI: <http://dx.doi.org/10.2316/Journal.202.2004.2.202-1222>
<https://doi.org/10.1080/1206212X.2004.11441728>
- J7. **George K. Adam** and Konstantinos Perakis, "Production quality control of an industrial unit using qualitative models and statistical methods", *AMSE Modeling, Measurement and Control, Series D periodical*, ISSN 1240-4551, AMSE Press, vol. 24, no. 3, 49-60, 2003.
- J6. **George K. Adam** and Nikos E. Mastorakis, "High level programming and control of a manufacturing system", *WSEAS Transactions on Circuits*, WSEAS Press, vol. 2, issue 1, 301-308, Jan. 2003.
- J5. **G. K. Adam**, "Qualitative Models in Simulation and Control of Structural Machine Processes", *International Journal of Modelling and Simulation*, ISSN 0228-6203, Taylor & Francis Online, ACTA Press, vol. 22, no. 1, 23-29, 2002. DOI: <https://doi.org/10.1080/02286203.2002.11442221>

In Greek technical journals

- J4. **G. K. Adam**, "RoboPress: an automatic system for structural materials production", in the *Journal of the Hellenic Association of Mechanical & Electrical Engineers*, 363/03, pages 50-64, July-August 2003, Athens, Greece.
- J3. **Adam, G.K.**, "The use of qualitative models in the control of an automatic press machine for cement elements production", in the *Journal Technica Chronika* (Annals of Engineering), of the Technical Chamber of Greece, ISSN: 1106-4951, Jan.-Dec. 2001, vol. 21, issue 1-2, pages 15-26, 2001, Athens, Greece (<http://library.tcc.gr/vufind/Record/10052863>).
- J2. **Adam, G.K.**, "A system for qualitative modelling and simulation", in the *Journal of the Hellenic Association of Mechanical & Electrical Engineers*, 287/96, pages 64-70, July-August 1996, Athens, Greece.
- J1. **Adam, G.K.**, "Multimedia: The application of a robotic communication system", in the *Journal of the Hellenic Association of Mechanical & Electrical Engineers*, 281/96, pages 44-49, January 1996, Athens, Greece.

Publications in Book Chapters

- B10. Georgia Garani and **George K. Adam**, "Design, Simulation and Development of Software Modules for the Control of Concrete Elements Production Plant", in Book: **New Approaches in Automation and Robotics**, I-Tech Education and Publishing KG, Vienna, Austria, ISBN: 978-3-902613-26-4, pages 261-282, 2008. DOI: <https://doi.org/10.5772/5399>
- B9. **George K. Adam**, "Modelling and simulation with Arena of a mechatronics system for hydraulic tubes construction", In Book: **Computational Methods in Circuits and Systems Applications**, Electrical and Computer Engineering Series, N.E. Mastorakis, I.A. Stathopoulos, C. Manikopoulos, G.E. Antoniou, V.M. Mladenov, I.F. Gonos (eds), WSEAS Press, ISBN: 960-8052-88-2, pages 105-108, 2003.
- B8. **George K. Adam** and Nikos E. Mastorakis, "Programming and control of an industrial robotic system", In Book: **Recent Advances in Circuits, Systems and Signal Processing**, Series: Electrical and Computer Engineering, N. Mastorakis, G. Antoniou (editors), WSEAS Press, ISBN: 960-8052-64-5, pages 425-430, 2002.

- B7. **George K. Adam**, "InfoSystem: An interactive educational tool for information management", In Book: **Advances in Signal Processing and Computer Technologies**, Series: Electrical and Computer Engineering, G. Antoniou, N. Mastorakis, O. Panfilov (editors), WSES Press, ISBN: 960-8052-37-8, pages 274-277, 2001.
- B6. **George K. Adam** and Edward Grant, "Qualitative modelling of lime-mash flow processes and measurements", In Book: **Advances in Systems Science: Measurements, Circuits and Control**, Series: Electrical and Computer Engineering, N. E. Mastorakis and L. A. Pecorelli-Peres (editors), WSES Press, ISBN: 960-8052-39-4, pages 60-63, 2001.
- B5. **G. K. Adam** and V. G. Pappas, "Geographical image analysis and information retrieval using GisTool", In Book: **Software for Electrical Engineering Analysis and Design**, Series: Software Studies, Wit Press, ISBN: 1-85312-866-X, Vol. 3, pages 205-212, 2001. (www.witpress.com/elibrary/wit-transactions-on-engineering-sciences/31/3351)
- B4. **George K. Adam**, "Application of object-oriented and qualitative modelling methodologies in the operation and control of a mobile structural press machine", In Book: **Problems in Modern Applied Mathematics**, Series: Mathematics and Computers in Science and Engineering, N. E. Mastorakis (editor), World Scientific and Engineering Society Press, ISBN: 960-8052-15-7, pages 270-275, 2000.
- B3. **G. K. Adam**, S. Tzortzios and N. Dalezios, "Computer-based methods in environmental data organization and management", In Book: **Development and Application of Computer Techniques to Environmental Studies**, Series: Environmental Studies, G. Ibarra-Berastegi, C.A. Brebbia, P. Zannetti (editors), Wit Press, ISBN: 1-85312-819-8, Vol. 4, pages 479-487, 2000. DOI: [10.15406/bbij.2019.08.00274](https://doi.org/10.15406/bbij.2019.08.00274)
- B2. **G. K. Adam**, "GisTool: An integrated environment for GIS data management", In Book: **Management Information Systems GIS and Remote Sensing**, Series: Management Information Systems, C.A. Brebbia, P. Pascolo (editors), Wit Press, ISBN: 1-85312-815-5, Vol. 1, pages 267-273, 2000. (www.witpress.com/Secure/elibrary/papers/MIS00/MIS00025FU.pdf)
- B1. Edward Grant, **George K. Adam** and Barry A. Shepherd, Chapter: **Developing hypermedia front-ends for robot teleoperation tasks**, In Book: **Intelligent Systems: Safety, Reliability and Maintainability Issues**, NATO ASI Series F: Computer and Systems Sciences, O. Kaynak, G. Honderd, and E. Grant (editors), Springer-Verlag, ISBN: 3-540-56993-6, vol. 114, pages 74-94, 1993. DOI: https://doi.org/10.1007/978-3-642-58021-5_7

Books translation

- "**Computer Architecture**", William Stallings, 8th edition, pages 827, ISBN 978-960-418-328-9, translated in Greek and published by Tziolas publishers, Thessaloniki, Greece, ©2012 (translation from the original: *Computer Organization and Architecture: Designing for performance, Prentice Hall ©2011*).
- "**Computer Architecture**", William Stallings, 6th edition, pages 888, ISBN 960-418-008-8, translated in Greek and published by Tziolas publishers, Thessaloniki, Greece, ©2003 (translation from the original: *Computer Organization and Architecture: Designing for performance, Prentice Hall ©2003*).

Publications in Proceedings

- P47.N. Petrellis and **G. K. Adam**, "Cough Sound Classification Based on Similarity Metrics", *44th IEEE International Conference on Telecommunications and Signal Processing (TSP)*, 26-28 July 2021, Brno, Czech Republic, pp. 214-217. DOI: [10.1109/TSP52935.2021.9522595](https://doi.org/10.1109/TSP52935.2021.9522595)
- P46. **G. K. Adam**, P. A. Kontaxis, C. A. Bouroussis, D. E. Ventzas, F. V. Topalis, "Embedded computer communication and control of DALI LED drivers", *Proceedings of Balkan Light Conference 2015*, pp.125-130, 16-19 September 2015, Athens, Greece. www.researchgate.net/publication/283568196_Embedded_computer_communication_and_control_of_DALI_LED_drivers
- P45. **George K. Adam**, Georgia Garani, and Dimitrios Ventzas "FPGA design of a camera control system for road traffic monitoring", *Proceedings of the 6th International Conference from Scientific Computing to Computational Engineering (LFME IC-SCCE 2014)*, vol.1, pp. 191-197, 9-12 July, 2014, Athens, Greece. www.researchgate.net/publication/263384392_FPGA_design_of_a_camera_control_system_for_road_traffic_monitoring
- P44. D.E. Ventzas, G. Soultis, **G.K. Adam**, K. Kokkinos "Traffic Image and Video frames classification in intelligent Monitoring of Traffic load and flow", *Proceedings of the International Conference in Advanced Research in Scientific Areas (ARSA 2013)*, pp. 485-490, December 2, 2013.

- P43. Ventzas D., Karras D., **Adam G.**, and Soultis G. "Vehicle's license plate recognition system based on a neural network radon transform method", *Proceedings of the 1st Virtual International Conference in Advanced Research in Scientific Areas (ARSA 2012)*, pp. 2097-2014, December 3-7, 2012.
- P42. N. Petrellis, **G. Adam**, D. Ventzas, "A Digital Short Term Predictor of ADC Outputs for Linearity Improvement", *Proceedings of the IEEE Applied Electronics Conference*, pp. 311-314, September 7-8, 2011, Pilsen, Czech Republic.
- P41. N. Petrellis, **G. Adam**, D. Ventzas, "A Post-Processing Module for Improving the SNDR of Pipeline A/D Converters", *Proceedings of the 4th International Conference on Experiments, Process, System Modelling, Simulation, Optimisation (IC-EpsMso)*, pp. 43-51, July 6-8, 2011, Athens.
- P40. Nikos Petrellis, **George Adam** and Dimitrios Ventzas, "A two-step post processing method for ADC output compression and linearity improvement", *IATED International Conference on Signal and Image Processing and Applications*, pages 70-75, June 22-24 2011, Crete, Greece. DOI: [10.2316/P.2011.738-016](https://doi.org/10.2316/P.2011.738-016)
- P39. **Adam, George K.**, Garani, Georgia, Srovnal, Vilem, Koziorek, Jiri, "Design and development of embedded control system for a lime delivery machine", *9th IFAC Workshop on Programmable Devices and Embedded Systems*, Vol. 9, Part 1, pages 102-107, February 10-12, 2009, Ostrava, Czech Republic. DOI: <https://doi.org/10.3182/20090210-3-CZ-4002.00023>
- P38. **George K. Adam**, Georgia Garani, Vilem Srovnal, Jiri Koziorek, "Microprocessor-based Neural Network Controller of a Stepper Motor for a Manipulator Arm", *9th WSEAS International Conference on NEURAL NETWORKS (NN'08)*, pages 148-154, May 2-4, 2008, Sofia, Bulgaria. DOI: <https://dl.acm.org/doi/abs/10.5555/1415520.1415549>
- P37. V. Srovnal, J. Koziorek, B. Horak, **G. Adam** and G. Garani, "Hydrogen Powered Car Control System", in: *Proceedings of the 5th IFAC International Conference on Informatics in Control, Automation and Robotics (ICINCO'08)*, pages 62-66, May 2008, Funchal, Madeira, Portugal.
- P36. Georgia Garani and **George K. Adam**, "Qualitative Modeling and Simulation of an Automated Mobile Press Machine", in: *Proceedings of the 13th IEEE International Conference on Methods and Models in Automation and Robotics (MMAR'07)*, pages 1111-1115, 27-30 August, Szczecin, Poland, 2007.
- P35. Georgia Garani and **George K. Adam**, "Qualitative Modelling of Manufacturing Machinery", in: *Proceedings of the 32nd IEEE Conference on Industrial Electronics (IECON'06)*, pages 3591-3596, November 7-10, 2006, Paris, France. DOI: [10.1109/IECON.2006.347534](https://doi.org/10.1109/IECON.2006.347534)
- P34. **George K. Adam**, Edward Grant, Nicholas Samaras, Gordon K. Lee and Lal Tummala, "Knowledge-based control of an automated mobile press (RoboPress) for manufacturing moulded concrete elements", in: *Electronic Proceedings of the World Automation Congress (WAC 2006)*, July 24-26, 2006, Budapest, Hungary. DOI: [10.1109/WAC.2006.376054](https://doi.org/10.1109/WAC.2006.376054)
- P33. **George K. Adam**, "Design and development of microprocessor-based flow controller for a lime delivery system", in *Proceedings of the 10th Panhellenic Conference in Informatics (PCI'05)*, pages 342-352, November 11-13, 2005, Volos, Greece.
- P32. **G. Adam**, E. Grant and G. Lee, "RoboPress – An automated mobile press for manufacturing concrete products", in *Proceedings of the 3rd IEEE International Conference on Information Technology and Applications (ICITA'05)*, pages 3-8, Vol. 2, July 4-7, 2005, Sydney, Australia. DOI: <https://doi.ieeecomputersociety.org/10.1109/ICITA.2005.2>
- P31. **George K. Adam**, "Application-Specific Architecture for Real-Time Control of a Lime Machine", in *Proceedings of the 5th IEEE International Workshop on Robot Motion and Control (ROMOCO'05)*, pages 291-296, June 23-25, 2005, Dymaczewo, Poland. DOI: [10.1109/ROMOCO.2005.201438](https://doi.org/10.1109/ROMOCO.2005.201438)
- P30. **George K. Adam**, "Design of a sensory-based control system for compression molding", in *Proceedings of the 9th Mechatronics Forum International Conference*, pages 853-860, August 30 - September 1, 2004, Ankara, Turkey.
- P29. **George K. Adam**, "Computer-aided Design of Microcontroller-based Robot-arm Controller", in *Proceedings of the 10th IEEE International Conference on Methods and Models in Automation and Robotics (MMAR'04)*, pages 571-575, 30 August – 2 September 2004, Miedzyzdroje, Poland.
- P28. **George K. Adam**, "Control system design of a paving-stones press machine", in *Electronic Proceedings (CD-ROM) of the 3rd IFAC International Symposium on Mechatronic Systems (Mech'04)*, 6-8 September, 2004, Sydney, Australia.
- P27. **George K. Adam**, "Remote concrete plant control and diagnosis", in *Proceedings of the 1st IFAC Symposium on Telematics Applications in Automation and Robotics (TA'04)*, pages 25-29, 21-23 June 2004, Espoo, Finland.
- P26. **George K. Adam**, "Hybrid Neural Network Controller of a Stepper Motor for a Manipulator Arm", in *Proceedings of the 4th IEEE International Workshop on Robot Motion and Control (ROMOCO'04)*,

pages 321-326, ISBN 83-7143-272-0, 17-20 June, 2004, Puszczykowo, Poland. DOI: [10.1109/ROMOCO.2004.240968](https://doi.org/10.1109/ROMOCO.2004.240968)

- P25. **George K. Adam**, "Design and control of a mechatronic hydraulic press system", in *Electronic Proceedings (CD-ROM) of the IEEE International Conference on Mechatronics (ICM'04)*, ISBN 0-7803-8600-0, 3-5 June, 2004, Istanbul, Turkey. DOI: [10.1109/ICMECH.2004.1364457](https://doi.org/10.1109/ICMECH.2004.1364457)
- P24. **George K. Adam**, "Design of a sensory control system", in *Proceedings of the 7th IEEE International Workshop on Design & Diagnostics of Electronic Circuits & Systems (DDECS'04)*, pages 247-250, ISBN 80-969117-9-1, 18-21 April, 2004, Tatranska Lomnica, Slovakia.
- P23. **George K. Adam**, "Design of a microprocessor-based control system of a compression molding process", in *Proceedings of the 9th IEEE International Conference on Engineering of Complex Computer Systems (ICECCS'04)*, pages 207-212, IEEE Computer Society Press, ISBN 0-7695-2109-6, 14-16 April, 2004, Florence, Italy. DOI: [10.1109/ICECCS.2004.1310919](https://doi.org/10.1109/ICECCS.2004.1310919)
- P22. **George K. Adam**, "Microcomputer based control of frequency regulator in induction motors", in *Proceedings of the IFAC Workshop on Programmable Devices and Systems*, pages 61-66, Elsevier Ltd publications, ISBN 0-08-044130-0, February 11-13, 2003, Ostrava, Czech Republic. DOI: [https://doi.org/10.1016/S1474-6670\(17\)33716-3](https://doi.org/10.1016/S1474-6670(17)33716-3)
- P21. Vassilis G. Pappas and **George K. Adam**, "Web-GIS in environmental management for educational and research purposes", in *Proceedings of the International Conference on Protection & Restoration of the Environment VI*, Vol. III, pages 1705-1711, 1-5 July 2002, Skiathos, Greece.
- P20. **George K. Adam**, "MATLAB computations and QMTOOL qualitative simulations in manufacturing of industrial press machines", in *Electronic Proceedings (CD-ROM) of the 4th GRACM Congress on Computational Mechanics*, 27-29 June 2002, Patra, Greece.
- P19. Βασίλης Παππάς και **Γεώργιος Αδάμ**, "Ανάπτυξη εφαρμογών Web-GIS για εκπαιδευτικούς σκοπούς", *Ηλεκτρονικά Πρακτικά (HellasGIS CD-ROM) του 2^{ου} Πανελληνίου Συνεδρίου στα Γεωγραφικά Συστήματα Πληροφοριών*, Έκδοση του Τομέα Περιφερειακής Ανάλυσης του Ινστιτούτου Υπολογιστικών Μαθηματικών του ΙΤΕ στο Ηράκλειο, 28 Φεβρουαρίου - 1 Μαρτίου, 2002, Αθήνα.
- P18. SI Tzortzios, **GK Adam**, N Gitsakis, "Electronic technology in biometric applications in plants and animals selection", in *Proceedings of XXIX CIOSTA-GIGR V Congress*, pages 224-228, 25-27 June, 2001, Krakow, Poland.
- P17. S Tzortzios, W Bojar, **G Adam**, N Gitsakis, "An integrated approach of computers utilization in the field of agriculture in Greece and Poland.", in *Proceedings of XXIX CIOSTA-GIGR V Congress*, pages 229-234, 25-27 June, 2001, Krakow, Poland.
- P16. **G. K. Adam**, "Computer technology in environmental education- A qualitative modelling tool", in *Proceedings of the 1st International Conference on Ecological Protection of the Planet Earth*, Volume II, pages 909-915, June 5-8, 2001, Xanthi, Greece.
- P15. **Γεώργιος Κ. Αδάμ**, Κωνσταντίνος Περάκης, "Ποιοτικός έλεγχος παραγωγικής διαδικασίας με χρήση ποιοτικών μοντέλων και στατιστικών συναρτήσεων", *Πρακτικά του 14^{ου} Πανελληνίου Συνεδρίου Στατιστικής*, σελ. 19-26, 18-21 Απριλίου 2001, Σκιάθος.
- P14. **Γεώργιος Κ. Αδάμ**, "Επεξεργασία χαρτογραφικών δεδομένων με χρήση του GisTool", *Πρακτικά του 6^{ου} Εθνικού Συνεδρίου Χαρτογραφίας "Η Χαρτογραφία σε εξέλιξη"*, σελ. 93-99, Νοέμβριος, 22-24, 2000, Αθήνα.
- P13. S. Tzortzios, N. Gitsakis, and **G. Adam**, "Management of Agricultural Data Using Qualitative and Statistical Modelling", in *Proceedings of the EUSTAT/SAS 15th International Workshop on Statistical Modelling*, ISBN: 84-7585-217-3, pages 521-524, July 17-21, 2000, Bilbao, Spain.
- P12. **Adam, G.**, Tzortzios, S., and Gitsakis, N., "Management of Agricultural Data of Specific Cattle Breed Using Qualitative Models", in *Proceedings of the IFAC International Conference on Modelling and Control in Agriculture, Horticulture and Post-harvested Processing*, pages 153-158, July 10-12, 2000, Wageningen, the Netherlands.
- P11. **G. K. Adam**, "Expanding Environmental Education Using GisTool", in *Proceedings of the 5th International Conference on the Protection and Restoration of the Environment*, Volume II, pages 1215-1220, July 3-6, 2000, Thassos Island, Greece.
- P10. **Adam, G.K.**, and Tzortzios, S.I., "Integrating Databases and Multimedia Information on the Web", in *Electronic Proceedings of the European Commission's Current Research Information Systems 5th Conference* (<https://cordis.europa.eu/event/id/14281-cris-2000/>), 25-27 May, 2000, Helsinki, Finland.
- P9. **George K. Adam**, Edward Grant and Kyriakos G. Adam, "Qualitative Modelling and Control of Industrial Processes", in *Proceedings of the IASTED International Conference on Modelling and Simulation*, Acta Press, ISBN: 0-88986-284-2, pages 477-482, May 15-17, 2000, Pittsburgh, Pennsylvania, USA.

- P8. **George K. Adam**, "Modelling and Simulation of Manufacturing Processes", in *Proceedings of the IASTED International Conference on Modelling and Simulation*, Acta Press, ISBN: 0-88986-284-2, pages 490-494, May 15-17, 2000, Pittsburgh, Pennsylvania, USA.
- P7. **Γεώργιος Αδάμ**, Σ. Τζώρτζιος, Ν. Γκιτσάκης, "Σχεσιακές βάσεις για την καταχώρηση ιεραρχικά δομημένων βιομετρικών δεδομένων", *Πρακτικά του 13^{ου} Πανελληνίου Συνεδρίου Στατιστικής*, του Ελληνικού Στατιστικού Ινστιτούτου (ΕΣΙ), Εκδόσεις Ζήτη, σελ. 23-30, 3-6 Μαΐου, 2000, Φλώρινα.
- P6. **Γεώργιος Αδάμ**, "GisTool: Ένα εργαλείο διαχείρισης και επεξεργασίας γεωγραφικών δεδομένων", *Ηλεκτρονικά Πρακτικά (HellasGIS CD-ROM) του 1^{ου} Πανελληνίου Συνεδρίου στα Γεωγραφικά Συστήματα Πληροφοριών - Δυνατότητες και Εφαρμογές, Προοπτικές και Προκλήσεις*, Έκδοση του Τομέα Περιφερειακής Ανάλυσης του Ινστιτούτου Υπολογιστικών Μαθηματικών του ΙΤΕ στο Ηράκλειο, Δεκέμβριος 9-10, 1999, Αθήνα.
- P5. Tzortzios S., and **Adam G.**, "Proper computer procedures (AgroModel) in plant and animal selection for research and educational purposes", in *Electronic Proceedings (CD-ROM, TACIS Project FD RUS 9702 "Strengthening Agricultural Reform Through Training") of the International Workshop of Information Technology in Agricultural Education (INTAGRED-99)*, (http://evaonline.euro.org/News/19990412123036_42.html), September 27th - 29th, 1999, Moscow, Russia.
- P4. S. Tzortzios, **G. Adam** and N. Gitsakis, "An interactive biometric-oriented database system for presenting comparative information on conventional and sustainable agriculture", in *Proceedings of the 6th IBS Scientific Workshop of Sub-Saharan African Network (SUSAN-IBS) of the International Biometric Society*, pages 205-214, August 23-28, 1999, Ibadan, Nigeria.
- P3. **George K. Adam** and Edward Grant, "QMTOOL- a qualitative modelling and simulation CAD system for designing automated workcells", in *Proceedings of the 1994 IEEE International Conference on Robotics and Automation (ICRA'94)*, ISBN: 0-8186-5330-2, Vol. 2, pages 1141-1146, 8-13 May, 1994, San Diego, California, USA. DOI: [10.1109/ROBOT.1994.351207](https://doi.org/10.1109/ROBOT.1994.351207)
- P2. **George K. Adam** and Edward Grant, "Developing an interactive interface for qualitative CAD and modelling", in *Proceedings of the 1994 IMACS-IEEE/SMC International Symposium on Signal Processing, Robotics and Neural Networks (SPRANN'94)*, pages 39-44, 25-27 April 1994, Lille, France.
- P1. Edward Grant and **George K. Adam**, "Qualitative modelling of manufacturing workcells", **Invited paper** to: *IMEchE Seminar on AI in Automation*, EEF West Midlands Venue, 20 September, 1993, Birmingham, UK.

Citations

Scopus: (articles 40, citations: 192, h index: 7) www.scopus.com/authid/detail.uri?authorId=15768712100

Google scholar: (articles: 97, citations: 469, h index: 11) <https://scholar.google.gr/citations?user=NZerWZkAAAAJ&hl=en>

ResearchGate: (articles 101, citations: 348, h index: 10) www.researchgate.net/profile/George_Adam

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Publons: <https://publons.com/researcher/1678760/george-adam/>

Patents

Significant contribution in the development, documentation and patent certificate acquisition of the following inventions for ADAM Kyr. & Co. Machines Construction Company, Volos, Greece.

- "A system for lime-mash intake and transfer in long distances", Patent No: GR99100187A/28-02-2001 (<http://gr.espacenet.com>), by the Greek Industrial Property Organisation (OBI), awarded to the company of Machines & Steel Constructions Adam K. & Co, Volos, Greece (www.adam.com.gr),
- "A machine for lime-mash storage and automatic transfer in long distances", Patent No: GR1003505B/04-01-2001 (<http://gr.espacenet.com>), by the Greek Industrial property Organisation (OBI), awarded to the company of Machines & Steel Constructions Adam K. & Co, Volos, Greece.

Linguistic skills

	Read	Spoken	Written
Greek	<i>Mother tongue</i>		
English	Excellent	Fluent	Very Good
Bulgarian	Excellent	Fluent	Very Good
Russian	Good	Moderate	Moderate