

CURRICULUM VITAE

(1 page summary / contents)

NAME	Vassilis G. Kaburlasos		
BIRTH DATE	24 September 1963		
POSITION	Tenured Full Professor on “Computational Intelligence”		
MAILING ADDRESS	Department of Computer Science International Hellenic University (IHU) GR-65404, Kavala Greece		
TELEPHONES	+30 (2510) 462 320 (Work) +30 (694) 522 4802 (Mobile)		
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HUMAIN-Lab URL	http://humain-lab.cs.ihu.gr/?lang=en		
STATEMENT OF INTEREST	Human Intelligence modeling and Human-Machines Interaction (HMI). Applications toward the development of competitive industrial products and services. Global scientific actions and initiatives.		
EDUCATION	<ul style="list-style-type: none">• Diploma in Electrical and Computer Engineering, National Technical University of Athens, Greece (October 1986)• M.Sc. in Electrical Engineering, University of Nevada, Reno, USA (December 1989)• Ph.D. in Electrical Engineering, University of Nevada, Reno, USA (May 1992)		
EXPERIENCE	<i>Research (basic & applied)</i>	<i>Teaching</i>	<i>Creative Activities</i>
LIST OF PUBLICATIONS	Publications in books, journals, conferences, theses, technical reports.		
IMPACT	Third party citations, <i>h-index</i> (Scopus, Google Scholar).		

EXPERIENCE

Research

Basic Research

Introduced the Lattice Computing (LC) information processing paradigm for rigorous modeling based on disparate types of data including numerical and/or non-numerical data such as real number matrices, functions, sets, set partitions, logic values, (binary) relations, strings of symbols, etc. Development of (parametric) computational intelligence modeling techniques for clustering /classification /regression in robots and other intelligent systems.

Applied Research

(Participation in Research Projects)

#1. ISDN: Simulation of different data routing algorithms for an Integrated Services Digital Network (ISDN). National Technical University of Athens, Greece. Spring & Summer 1986, as a student, during diploma thesis.

#2. WHIPLASH INJURY DIAGNOSIS: Development of image processing and neural computing techniques for the diagnosis of whiplash injury on thermal (infrared) images. University of Nevada, Reno. Sep. 1988 - May 1989, as a research assistant, during Master's Thesis. Funded by Computerized Thermography Centers/ IFEX Inc., New York, NY.

#3. MEDICAL DIAGNOSIS: Development and application of neural network techniques for the discovery of unanticipated and emerging disease and medical practice patterns. University of Nevada, Reno. Jun. 1991 – Dec. 1991, as a research assistant, during Ph.D. dissertation. Funded by Washoe Medical Center, Reno, Nevada.

#4. MITOS project (BE7470): Research and development of intelligent sensing and control strategies for mechatronics tools in four surgical procedures. Automation & Robotics Laboratory (ARL), Aristotle University of Thessaloniki, Greece. Mar. 1994 – Feb. 1997, as a research associate. Funded by the European Union in the context of Brite Euram (BE) project BE7470 (MITOS project).

#5. SET MARKS: Information processing technologies. Department of Electrical & Computer Engineering, Aristotle University of Thessaloniki, Greece. May 1997 – Dec. 1997, as a research associate. Funded by the European Union.

#6. GENOS: Research regarding a system for an optimal management of energy resources. Department of Electrical & Computer Engineering, Aristotle University of Thessaloniki, Greece. Mar. 1997 – Dec. 1997, as a research associate. Funded by the European Union.

#7. MTS (PL 950317): A human network for linking industrial, medical, and research centers of the European Union towards the development of mechatronic tools in medical surgeries. Mar. 1996 – Feb. 1999, as a research associate. Funded by the European Union.

#8. ACES: Development and Internet application of the interactive Automatic Control Educational Software (ACES). ACES involved hypertext and intelligent modules for both distant self-learning and self-evaluation in two undergraduate *Automatic Control* courses. Department of Electrical & Computer Engineering, Aristotle University of Thessaloniki, Greece. Jan. 1998 – May 2000, as a research associate. Funded by the General Secretariat of Research and Technology of Greece.

#9. VENFLEX (CT98-5312): Robotic vision for recognition and manipulation of flexible materials. Automation & Robotics Laboratory (ARL), Aristotle University of Thessaloniki, Greece. Jan. 2000 – Jul. 2000, as a research associate. Funded by the European Union.

#10. KTESIBIOS: A human network linking research centers, universities, and commercial companies in Greece towards the dissemination of information technologies for industrial automation and production. Jun. 2000 – Jun. 2001, as a research associate. Funded by the General Secretariat of Research and Technology of Greece.

#11. HSU: Research and development of novel computational intelligence techniques for prediction of sugar production from sugar beets cultivation data. Automation & Robotics Laboratory (ARL), Aristotle University of Thessaloniki, Greece. Jul. 2000 – Jun. 2001, as a research associate. Funded by Hellenic Sugar Industry (HSU), Greece.

#12. Project title: Enhancement of studies in informatics (in Greek)

Subproject title: Development and Internet application of the interactive Platform for Adaptive and Reliable Evaluation of Students (PARES)

Principal Investigator: Professor Vassilis Kaburlasos

Subproject budget: €80,000

Funded from: The 3rd European framework programme via the Operational Programme in Education and Initial Vocational Training II
Start - end dates: 1 May 2003 – 31 August 2008

#13. Project title: Combined Research and Curriculum Development (CRCD) in “Machine Learning Advances for Engineering Education”
Principal Investigator: Professors Michael Georgiopoulos and Erol Gelenbe, University of Central Florida, Orlando, USA
Budget: \$440,851
Funded from: National Science Foundation (NSF), USA
Start - end dates: June 2003 - June 2005
Role: Academic Affiliate

#14. Project title: Archimedes-I (in Greek)
Subproject title: Parallel, content based cross-language information retrieval (PA_CO_CLIR) (in Greek)
Principal Investigator: Professor Christos Skourlas, Department of Informatics, Technological Educational Institution of Athens
Budget: €52,000
Funded from: The 3rd European framework programme via the Operational Programme in Education and Initial Vocational Training II
Start - end dates: 1 January 2004 - 31 December 2006
Role: Investigator using Intervals’ Numbers (INs)

#15. Project title: Archimedes-I (in Greek)
Subproject title: Software for simulating a human-operator in industrial production (SHOP) using neuro-fuzzy models based on disparate types of data (in Greek)
Principal Investigator: Professor Vassilis Kaburlasos
Budget: €52,000
Funded from: The 3rd European framework programme via the Operational Programme in Education and Initial Vocational Training II
Start - end dates: 1 January 2004 - 30 June 2007

#16. Project title: Design, development and application of an “intelligent” electronic measurement device for measuring temperature and humidity in a processing (heating) dry fruits oven (D-FRUIT) (in Greek)
Principal Investigator: Professor Vassilis Kaburlasos
Budget: €2,000
Funded from: “KARPOS dry fruit company”, via the Center for Technological Research of Eastern Macedonia & Thrace, Kavala, Greece
Start - end dates: 1 July 2007 - 31 October 2007

#17. Project title: Development and application of techniques for recognizing digital images using Fuzzy Interval Numbers (FINs) (IMAGFINs) (in Greek)
Principal Investigator: Professors Stelios Papadakis and Vassilis Kaburlasos
Budget: €3,000
Funded from: The Research Commission of the Technological Educational Institution of Kavala, Greece
Start - end dates: 1 September 2008 - 31 May 2009

#18. Project title: International collaboration to study oceanic currents phenomena and climate changes through cross-mining and retrieving multispectral satellite image and sensor network data (CDI)
Principal Investigator: Professor James Z. Wang, The Pennsylvania State University, USA
Budget: \$650,000
Funded from: National Science Foundation (NSF), USA
Start - end dates: September 2010 - June 2015
Role: Participant expert on clustering, classification and regression in graph processing and data mining applications

#19. Project title: Development and application of novel techniques for the improved industrial production of beverages (EXTRA) (in Greek)
Principal Investigator: Professor Vassilis Kaburlasos
Budget: €7,000 + €1,610 (VAT)
Funded from: Innovation coupon no. 16106672-01-000115 (of the Greek government), via the Center for Technological Research of Eastern Macedonia & Thrace, Kavala, Greece
Start - end dates: 15 April 2011 - 15 August 2011

#20. Project title: Computational intelligence techniques for brain imaging and the neurosciences (MICINN) (in Spanish)
Principal Investigator: Professor Manuel Graña, University of the Basque Country, San Sebastian, Spain
Budget: €108,900
Funded from: Ministry of Science and Innovation, Government of Spain
Start - end dates: 1 January 2012 - 31 December 2014
Role: Research Associate on the development of novel Lattice Computing techniques

#21. Project title: Archimedes-III (in Greek)
Subproject title: Secure Retrieval and Dissemination of Information (text and image) in Distributed and Wireless specific purpose Environments (SECRET_DIDWE) (in Greek)
Principal Investigator: Professor Christos Skourlas, Department of Informatics, Technological Educational Institution of Athens
Budget: €100,000
Funded from: Operational Programme “Education and Lifelong Learning”
Start - end dates: 1 March 2012 - 31 August 2014
Role: Applications using Intervals’ Numbers (INs)

#22. Project title: Writing an electronic textbook (in Greek) entitled “Introduction to Computational Intelligence – A Holistic Approach” (Kallipos action)
Principal Investigator: Professor Vassilis Kaburlasos, Department of Computer and Informatics Engineering, Eastern Macedonia and Thrace Institute of Technology (EMaTTech)
Budget: €10,000
Funded from: Operational Programme “Education and Lifelong Learning” the Greek National Strategic Reference Framework (NSRF) 2007-2013
Start - end dates: 7 Οκτωβρίου 2014 – 30 Σεπτεμβρίου 2015
Role: Main Author (the other author is George Papakostas)

#23. Project title: Travel Grants for Scoping Research Labs Twinning opportunities by DRAGON-STAR
Principal Investigator: Professor Vassilis Kaburlasos
Budget: €3,500
Funded from: European Commission Framework Programme FP7
Start - end dates: 21 January 2015 - 30 June 2015
Role: In charge of an initiative toward establishing a Sino-European research lab entitled “Logic-Based Methods in Internet-of-Things (IoT) Applications” in SouthWest Jiaotong University, Chengdu, Sichuan, China.

#24. Project title: Program of scholarships to 15 promising young scientists (in Greek)
Coordinator: Professor Athanasios Mitropoulos, Dean of the Eastern Macedonia and Thrace Institute of Technology (EMaTTech)
Budget: €900,000
Funded from: The Stavros Niarchos Foundation
Subproject title: Special Education Robot Teaching Assistant (EduBot)
Budget: €60,000
Supervisor: Professor Vassilis Kaburlasos
Start - end dates: 1 October 2016 - 30 September 2018
Role: Supervisor of the scholarship earned by Dr. Angelos Amanatiadis

#25. Project title: Cyber Physical Systems for PEDagogical Rehabilitation in Special EDucation (CybSPEED)

Coordinator: Professor Manuel Graña, University of the Basque Country, San Sebastian, Spain

Budget: €1,296,000

Funded from: European Commission Horizon 2020, H2020-MSCA-RISE-2017 (Marie Skłodowska-Curie Research and Innovation Staff Exchange) Project no. 777720

HUMAIN-Lab budget: €283,500

Participant coordinator: Professor Vassilis Kaburlasos

Start - end dates: 1 December 2017 – 31 July 2022

Role: Coordinator of Work Package WP#2 “Research on Analysis, Modelling and Synthesis of CPSs for Pedagogical Rehabilitation in Education” regarding the content of all the 288 secondments, where $288 * €4,500 = €1,296,000$ and €4,500 is the monthly cost per secondment.

#26. Project title: Increasing the well being of the population by RObotic and ICT based iNNovative educatIon (RONNI)

Coordinator: Associate Professor Snezhana Kostova, Institute of Robotics, Bulgarian Academy of Sciences, Bulgaria

Budget: €99,009.24 (89,000 from the EU + 10,009.24 co-funding)

Funded from: EU Danube Strategic Project Fund (DSPF), Interreg Danube Transnational Programme (<https://www.danube-capacitycooperation.eu/news/1st-call-of-the-dtp-seed-money-facility-is-open-now>) Project no. 07_ECVII_PA07_RONNI

HUMAIN-Lab budget: €34,133

Participant coordinator: Professor Vassilis Kaburlasos

Start - end dates: 1 January 2018 – 31 January 2019

Role: Application of robotics, information and communication technologies toward improving general population life quality using innovative educational technologies.

#27. Project title: Social Robots as Tools in Special Education (SRTSE)

Coordinator & Principal Investigator: Professor Vassilis Kaburlasos

Budget: €970,078.15 (Public Expense: €875,385.13)

Funded from: Action “RESEARCH – DEVELOP - INNOVATE”, cycle A, Intervention II, Operational Programme “Competitiveness, Entrepreneurship and Innovation”, NSRF (National Strategic Reference Framework) of Greece 2014-2020 Project no. T1EDK-00929

Humain-Lab Budget: €328,517.64 (Public Expense: €328,517.64)

Start - end dates: 28 June 2018 – 27 June 2022

#28. Project title: Personalized Optimal Grape Harvest by Autonomous Robot (POGHAR)

Coordinator & Principal Investigator: Professor Vassilis Kaburlasos

Budget: €997,292.70 (Public Expense: €931,167.70)

Funded from: Action “RESEARCH – DEVELOP - INNOVATE”, cycle A, Intervention II, Operational Programme “Competitiveness, Entrepreneurship and Innovation”, NSRF (National Strategic Reference Framework) of Greece 2014-2020 Project no. T1EDK-00300

Humain-Lab Budget: €554,810.02 (Public Expense: €554,810.02)

Start-end dates: 28 June 2018 - 27 June 2022

#29. Project title: Técnicas avanzadas de análisis e interpretación de datos de etología computerizada: aplicaciones en neuroetología (Advanced techniques for analysis and interpretation of computerized ethology data: applications in neuroetology)

Principal Investigator: Professor Manuel Graña, University of the Basque Country, San Sebastian, Spain

Budget: €200,000
Funded from: Government of the Basque Country, Spain. Project no. IT1284-19
Start - end dates: 2019 - 2021
Role: External collaborator

#30. Project title: Technology for Skillful Viniculture (SVtech)
Coordinator & Principal Investigator: Professor Vassilis Kaburlasos
Budget: €2,869,470.25
Funded from: Action “Reinforcement of the Research and Innovation Infrastructure”, Operational Programme “Competitiveness, Entrepreneurship and Innovation”, NSRF (National Strategic Reference Framework) of Greece 2014-2020. Project no MIS 5046047.
Start-end dates: 20 November 2020 - 19 May 2023

#31. Project title: Greek Bulgarian Business Partnership by Assistance, Services, Solutions to Promote Open Regions Team (GR BG BUSINESS PASSPORT)
Coordinator: Michalis Chavouzis – Manager, Management and Administration Authority Technopolis Thessalonikis SA
Budget: €645.014,85
Funded from: INTERREG V-A GREECE-BULGARIA 2014-2020, 6th Call
Humain-Lab Budget: €39,056.00
Partner Beneficiary 3 coordinator: Professor Vassilis Kaburlasos
Start - end dates: 1 January 2021 - 31 December 2022
Role: Robotics training seminars in Greek/Bulgarian companies along the border.

#32. Project title: Rewarding the participation of the CybSPEED project in competitive programs of the European Union (Matching Funds)
Principal Investigator: Professor Vassilis Kaburlasos
Budget: €7.968,75
Funded from: Ministry of Development and Investment of Greece, General Secretariat for Research and Innovation
Start - end dates: 1 March 2021 – 30 November 2021

Teaching

#1. Lab *Electrical Communications*: Basic analog and digital telecommunication circuits. National Technical University of Athens, Greece. 12 hours in the lab. Spring 1987, as a student assistant. Funded by the National Technical University of Athens.

#2. Class *Signals & Systems*: Basic information and communication theory, information measure, noise measure, pulse and continuous signal modulation and detection systems. University of Nevada, Reno, class EE381. 40 hours in the classroom. Spring 1988, as a teaching assistant. Funded by the University of Nevada, Reno.

#3. Class *Circuits & Systems*: Analysis and design of linear circuits and systems in the time and frequency domains. University of Nevada, Reno, class EE301. 40 hours in the classroom. Spring 1990, as a teaching assistant. Funded by the University of Nevada, Reno.

#4. Lab *Electrical Projects*: Implementation of measurement techniques on complex systems by electrical means. University of Nevada, Reno, class EE490. 30 hours in the lab. Fall 1990, as a teaching assistant. Funded by the University of Nevada, Reno.

#5. SELETE (continuing education) seminar: Training high school educators. Instruction included the use of the MATLAB software for designing controllers in classic automatic control problems. Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Greece. 16 hours in the lab per semester. Fall 1998, Spring 1999.

#6. Lab *Intelligent Robots*: Design and application of neural networks in various benchmark pattern recognition problems. Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Greece. 15 hours in the lab per semester. Fall 1998, 1999, 2000.

#7. Lab *Automatic Control Systems*: Design of linear state feedback control systems. Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki,

Greece. 15 hours in the lab per semester. Spring semesters of 1999, 2000, 2001.

#8. Lab *Classic Automatic Control*: Design of classic feedback control systems. Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Greece. 20 hours in the lab per semester. Fall semesters of 1999, 2000.

#9. Novel-Technologies Seminar: Topics included 1) Neural Networks, and 2) Neuro-fuzzy controllers. Faculty of Engineering, Aristotle University of Thessaloniki, Greece. 9 teaching hours. May 2000, as a seminar instructor. Funded by the General Secretariat of Research and Technology of Greece, under the human network KTESIBIOS.

#10. Lab *Intelligent Control*: Application of basic neural-fuzzy controller design principles. Department of Automation, Technological Educational Institution of Thessaloniki, Greece. For four semesters, Fall 2000 to Spring 2002, as a visiting professor.

#11. Lab *Artificial Intelligence*: Solving problems with PROLOG language. Department of Informatics, Technological Educational Institution of Thessaloniki, Greece. Fall 2001, Spring 2002, as a visiting professor.

#12. Lab *Computer Programming*: Programming in C++ computer language. Department of Informatics, Technological Educational Institution of Thessaloniki, Greece. Fall 2001, Spring 2002, as a visiting professor.

#13. 2002 - 2019: In charge of teaching four undergraduate courses 1) *Artificial Intelligence*, 2) *Introduction to Computational Intelligence*, 3) *Logic and Logical Programming*, and 4) *Robotics & Human-Machine Interaction*, in the Department of Computer and Informatics Engineering, Eastern Macedonia and Thrace Institute of Technology, Greece, as a tenured Professor.

#14. 2015 - 2018: In charge of teaching the course “Computational Intelligence” in the graduate program entitled “Advanced Technologies in Informatics and Computers” at the Department of Computer and Informatics Engineering, Eastern Macedonia and Thrace Institute of Technology, Greece.

#15. 2019 - : In charge of teaching four undergraduate courses 1) *Artificial Intelligence*, 2) *Introduction to Computational Intelligence*, 3) *Logic and Logical Programming*, and 4) *Robotics & Human-Machine Interaction*, in the Department of Computer Science, International Hellenic University (IHU), Greece, as a tenured Professor.

#16. 2019 - : In charge of teaching the course “Computational Intelligence” in the graduate program entitled “Advanced Technologies in Informatics and Computers” at the Department of Computer Science, International Hellenic University (IHU), Greece.

Bilateral Educational Exchange

#1. He was selected by the Department of Inter-University Relations of the Greek Ministry for Education, Life-long Learning and Religious Affairs to visit a Belgian Flemish Institution under a Bilateral Educational Program in 2011 Applicants were (a) members of the academy of Athens, (b) higher education teaching and/or administration personnel, and (c) researchers and PhD candidates. A total number of 46 applicants were selected. Prof. Kaburlasos followed an invitation of his Belgian colleague Prof. Da Ruan towards visiting the (a) Belgian Nuclear research Centre (SCK-CEN) at Mol, and (b) Department of Applied Mathematics & Computer Science of Gent University, to deliver a series of lectures and collaborate with other colleagues on issues of a (mathematical) unification in Informatics.

#2. With 30 Greek scientists and/or entrepreneurs, Professor Kaburlasos was proposed by the Greek human network “Praxi” to participate in the “2017 Global Smart Industry Innovation Conference and Global Innovation Technology Transfer Convention” in Beijing, China, 5-6 June 2017 as a member of a Greek delegation toward presenting selected activities of the HUMAIN-Lab he directs. Professor Kaburlasos was one of the 9 Greek scientists and/or entrepreneurs selected by the local Chinese government and attended the conference.

#3. Since the year 2019 the name of professor Kaburlasos is included in the top 2% of researchers worldwide in the field “Artificial Intelligence & Image Processing” according to Mendeley Data, <https://doi.org/10.17632/btchxktzyw.3>, <http://dx.doi.org/10.17632/btchxktzyw.2>

Membership in

#1. Technical Chamber of Greece.

#2. Sigma Xi, the Scientific Research Society (Swiss chapter).

#3. Phi Kappa Phi, the National Honor Society (USA).

#4. Tau Beta Pi, the National Engineering Honor Society (USA).

#5. Eta Kappa Nu, the Electrical Engineering Honor Society (USA).

#6. Delta Phi Alpha, the German Honor Society (USA).

Evaluator

#1. On 2 October 2013 he was invited by the Republic of Cyprus regarding the program “Young Researcher” for the year 2013 to serve as an evaluator with expertise on (a) Computational Neuroscience, (b) Computational Intelligence, (c) Machine Learning.

#2. Since 2013 in charge of the internal evaluation of the Program of Studies of the Department of Computer and Informatics Engineering at the Eastern Macedonia and Thrace Institute of Technology (EMaTTech).

#3. On 6 May 2019 he served as an expert evaluator of proposals submitted in phase B’ of the “1st Call for Research Projects of the HFRI (Hellenic Foundation for Research & Innovation) for the support of researchers and the procurement of high valued research equipment” in the scientific area “Engineering Sciences and Technology”.

Reviewer in the following SCI (Science Citation Index) journals

#1. IEEE Transactions on Systems, Man and Cybernetics.

#2. IEEE Transactions on Neural Networks and Learning Systems (as well as the former IEEE Transactions on Neural Networks).

#3. IEEE Transactions on Fuzzy Systems.

#4. IEEE Intelligent Systems.

#5. Neural Networks.

#6. Decision Support Systems.

#7. Information Sciences: An International Journal.

#8. Journal of Multiple-Valued Logic and Soft Computing.

#9. Neurocomputing.

#10. Computers and Mathematics with Applications.

#11. Journal of Information Science.

#12. Engineering Intelligent Systems.

#13. IEEE Intelligent Systems.

#14. Neural Network World.

#15. Journal of Mathematical Imaging and Vision.

- #16. Neural Computing & Applications.
- #17. Mathematical and Computer Modelling.
- #18. Soft Computing.
- #19. Mathematical Problems in Engineering.
- #20. IET Image Processing.
- #21. Advances in Fuzzy Systems.
- #22. Annals of Mathematics and Artificial Intelligence.
- #23. Artificial Intelligence Review.
- #24. Information Fusion.
- #25. Pattern Recognition Letters.
- #26. Sensors.
- #27. IEEE Computational Intelligence Magazine.
- #28. Computational Intelligence and Neuroscience.
- #29. Iranian Journal of Fuzzy Systems.
- #30. Complexity.
- #31. International Journal of Approximate Reasoning.
- #32. Computational Intelligence.
- #33. Journal of Intelligent and Fuzzy Systems.
- #34. Sensing and Imaging.
- #35. Applied Sciences.
- #36. Electronics.
- #37. The Computer Journal.
- #38. Symmetry.
- #39. IEEE Transactions on Emerging Topics in Computational Intelligence.
- #40. Agronomy.
- #41. IEEE Systems Journal.
- #42. Future Generation Computer Systems.
- #43. Agriculture MDPI.

Book Reviewer

- #1. Reviewer of the book: Gerhard X. Ritter, Gonzalo Urcid, Introduction to Lattice Algebra With Applications in AI, Pattern Recognition, Image Analysis, and Biomimetic Neural Networks. August 24, 2021, 1st Edition. Chapman and Hall/CRC, ISBN 9780367720292. Bλ. <https://www.routledge.com/Introduction-to-Lattice-Algebra-With-Applications-in-AI-Pattern-Recognition/Ritter-Urcid/p/book/9780367720292>

Participation scientific journal editing boards

- #1. Future Generation Computer Systems.

Conference Program/Organizing Committees

- #1. FUZZ-IEEE 2004 International Conference on Fuzzy Systems, 25-29 July 2004, Budapest, Hungary. Chair of the (poster) session entitled: “System Architectures and Hardware”, Tuesday, July 27, 5:30PM-7:00PM.
- #2. Optics and Photonics 2005 (sponsored by SPIE – The International Society for Optical Engineering), 31 July – 4 August 2005, San Diego, California, USA. Program Committee of the session OEI321 entitled: “Fuzzy Set Theory and Neural Network Methods in Image Analysis and Pattern Recognition” (chaired by G.X. Ritter & I.L.D.L. Santiago).
- #3. World Congress on Computational Intelligence (WCCI 2006) 16-21 July 2006, Vancouver, BC, Canada. Lead chairman of three oral special sessions entitled: “Computational Intelligence Based on Lattice Theory” of the program FUZZ-IEEE 2006, Monday, July 17, 8:00AM-10:00AM, 1:00PM-3:00PM, 3:15PM-5:15PM. The other two chairs were G.X. Ritter and M. Georgiopoulos.
- #4. 8th International Conference on Natural Computing, 15-22 July 2007, Salt Lake City, Utah, USA. Member of the Program Committee chaired by Manuel Graña.
- #5. World Congress on Computational Intelligence (WCCI 2008) 1-6 June 2008, Hong Kong, China. Member of the Technical Committee.
- #6. 6th International Conference on Concept Lattices and their Applications (CLA 2008), 21-23 October 2008, Olomouc, Czech Republic. Lead chairman of a Workshop entitled “Lattice-Based Modeling (LBM 2008)”. The other two chairs were U. Priss and M. Graña.

- #7. International Conference on Statistical Techniques in Pattern Recognition (SPR 2008), 4-22 December 2008, Orlando, Florida, USA. Member of the Program Committee chaired by Michael Georgiopoulos.
- #8. 4th International ICSC Symposium on Information Technologies in Environmental Engineering (ITEE) 2009, 28-29 May 2009, Thessaloniki, Greece. Member of the Program Committee chaired by Ioannis N. Athanasiadis, Pericles A. Mitkas, Andrea-Emilio Rizzoli, Jorge Marx-Gómez.
- #9. 5th International Conference on Hybrid Artificial Intelligence Systems (HAIS 2010), 23-25 June 2010, San Sebastian, Spain. Lead chairman of two oral special sessions entitled: “Hybrid Artificial Intelligence Systems Based on Lattice Theory”. The other two chairs were C. Joslyn και J. Humberto Sossa.
- #10. International Joint Conference on Neural Networks (IJCNN 2011), 31 July - 5 August 2011, San Jose, California, USA. Program Committee member (session chair) with Program Chair Prof. Hava Siegelmann.
- #11. The 8th International Conference on Concept Lattices and Their Applications (CLA 2011), 17-21 October 2011, INRIA Nancy Grand Est/LORIA Nancy, France. Program Committee member (session chair) with Program Chairs Amedeo Napoli and Vilem Vychodil.
- #12. 7th International Conference on Hybrid Artificial Intelligence Systems (HAIS’12) 28-30 March 2012, Salamanca, Spain. Program Committee member with General Chair Prof. Emilio Corchado.
- #13. 10th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making (FLINS 2012) 26-29 August 2012, Istanbul, Turkey. Chairman of three oral Special Session entitled “Logic Algebra, Algebraic Logic and Their Applications”. The other two chairs were Yang XU και Jun Liu.
- #14. 9th International Conference on Concept Lattices and Their Applications (CLA 2012), 11-14 October 2012, Fuengirola (Málaga), Spain. Program Committee, session chair. Program Chairs were Uta Priss and Laszlo Szathmary.
- #15. 10th International Conference on Concept Lattices and Their Applications (CLA 2013), 15-18 October 2013, La Rochelle, France. Program Committee, session chair. Program Chairs were Manuel Ojeda-Aciego and Jan Outrata.
- #16. 2013 IEEE Intl. Conf. on Imaging Systems and Techniques (IST 2013) 22-23 October 2013 Beijing, China. Technical Program Committee. General Chair was George Giakos.
- #17. World Congress on Computational Intelligence (WCCI 2014) 6-11 July 2014, Beijing, China. The chairman of a Special Session entitled “Lattice Computing”, FUZZ-IEEE.
- #18. The 16th International Conference on Computer as a Tool (EUROCON2015), 8-11 September 2015, University of Salamanca (Spain). Program Committee member with General Chair Emilio Corchado.
- #19. International Conference 1st International Association for Blended Learning Conference (IABL 2016), 22-24 April 2016, Kavala, Greece. Technical Program Committee member.
- #20. The 8th International Conference on Information & Communication Technologies in Agriculture, Food and Environment (HAICTA 2017), 21-24 September 2017, Chania, Crete (Greece). Program Committee member.
21. International Conference 2018 JSME Conference on Robotics and Mechatronics (ROBOMECH 2018), 2-5 June 2018, Kitakyushu, Japan. Member of a special session poster entitled “Cyber-Physical Systems for PEdagogical Rehabilitation in Special Education (CyberSPEED)”.
- #22. 9th International Conference on European Transnational Educational (ICEUTE 2018), 6-8 June 2018, San Sebastian, Spain. Chairman of a special session entitled “CybSPEED: Cyber-Physical systems and social robots in education for people with special needs”. Other two chairmen were Manuel Graña and Maya Dimitrova.
- #23. 26th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2018), Symposium on: Robotic and ICT assisted wellbeing, 13-15 September 2018, Split, Croatia. Program Committee member.
- #24. 14th IEEE International Conference on Intelligent Systems and Knowledge Engineering (ISKE 2019), 14-16 November, Dalian, China. Publicity Chair.

- #25. 11th International Conference on Social Robotics (ICSR 2019), 26-29 November 2019, Madrid, Spain. Program Committee member.
- #26. 2021 International Joint Conference on Neural Networks (IJCNN 2021), 18 July - 22 July 2021, Shenzhen, China. Program Committee member.
- #27. World Congress on Computational Intelligence (WCCI 2022) 18-23 July 2022, Padua, Italy. Technical Committee member – Reviewer of 4 papers.
- #28. 2022 North American Fuzzy Information Processing Society (NAFIPS 2022) Conference, 31 May -3 June 2022, Halifax, Nova Scotia, Canada. Chairman of an oral Special Session entitled “Recent Approaches Toward Lattice Computing”. The leading chairman was Peter Sussner.

Invited as Collaborator /Speaker

- #1. Plenary speaker during the annual general assembly of the Swiss chapter of Sigma-Xi, the Scientific Research Society, 19 April 1997, Bern, Switzerland. His lecture title was “Imitating Life: An Engineering Approach”.
- #2. Speaker in the seminar “Theory, Applications, and Perspectives of Neural Net Technology” organized by the “Neuron, Human Network” and sponsored by the Greek Ministry of Industry, Research & Technology, 13 October 1997, Thessaloniki, Greece.
- #3. Speaker in the first workshop of the human network KTESIBIOS, under the auspices of the General Secretariat of Research and Technology of Greece. Athens, Greece, 23 June 2000. Subject: “Educational Software for Automatic Control Systems”.
- #4. Invited speaker of the 9th International Work-conference on Artificial Neural Networks (IWANN’2007), San Sebastian, Spain, 20-22 June 2007. His lecture title was “Unified Analysis and Design of ART/SOM Neural Networks and FISs Based on Lattice Theory”.
- #5. Presentation entitled “AI Based on Lattice Theory” in Workshop B, on Sunday 11 October 2009, 11:30-13:00 (presided by Vincent Müller), EUCogII Members’ Conference 2009 of the Human Network “2nd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics”, 10-11 October 2009, Hamburg, Germany.
- #6. Invited speaker in a Workshop entitled “Trends on Computational Intelligence 2009” in the Universidad del Pais Vasco. San Sebastian, Spain, 9-11 December 2009. The Workshop was organized by Professor Manuel Graña Romay from the Department of Computer Science and Artificial Intelligence. The presentation was entitled “Advantages of using Lattice Theory in Computational Intelligence”.
- #7. Elected participant in the 39-member conference entitled “Challenges for Cognitive Systems” in Rapperswil, Switzerland, 28-30 January 2011 in the context of the Human Network “2nd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics”. This conference formulated a proposal for the upcoming European research direction on “Artificial Cognitive Systems, Interaction and Robotics”.
- #8. Organizer of a parallel session entitled “Unified Lattice Computing for Unified Cognitive System Design and Applications” in the context of the fourth conference of the human network “2nd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics (EUCogII)”, 11-12 April 2011 in Thessaloniki, Greece. This initiative concluded with the submission of an FP7 research proposal to the European Union from a consortium including research teams from Spain (1), United Kingdom (1), Belgium (1) Sweden (1) Czech Republik (1) and Greece (2) with Principal Investigator (PI) Prof. Vassilis Kaburlasos.
- #9. Flashtalk EUCog members presentation entitled “The Novel, Lattice Computing Paradigm (LCparadigm) for Versatile Learning” on Thursday 11 April 2013, 16:30-17:30 (presided by Vincent Müller) of the Human Network “3rd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics (EUCogIII)”, 10-11 April 2013, Palma de Mallorca, Spain.
- #10. In the context of educational program “Erasmus”, on 11 June 2013 he visited Département du Signale at des Images, CNRS LTCI, Telecom Paris Tech in Paris (France) following an invitation of professor Isabelle Bloch for collaboration regarding digital signal processing and lattice computing issues.
- #11. In the context of educational program “Erasmus”, on 12 June 2013 he visited the Verimag, Integrative Research Center (CRI) laboratory in Grenoble (France) following an invitation of professor Joseph Sifakis for collaboration regarding a unification of analog and digital system models and lattice computing issues.

#12. Delivered two 2-hours long (each) lectures in Southwest Jiaotong University, Chengdu, Sichuan, China on Thursday 3 July and Friday 4 July 2014 in the department of Electrical Engineering and the School of Mathematics, respectively, after a personal invitation of professor Yang Xu from the School of Mathematics.

#13. In the context of educational program “Erasmus”, during 29-31 October 2014 he visited the Institut für Neuroinformatik in Ruhr-Universität Bochum (Germany) following an invitation of professor Gregor Schöner for collaboration regarding the potential submission of a research project proposal in the context of European Framework Program Horizon 2020.

#14. Delivered one presentation entitled “GUardian Agent Robot squaDs (GUARDs)” in the context of the conference “Successful R&I in Europe 2014 - 6th European Networking” organized by the State of North Rhine - Westfalia in Düsseldorf (Germany) in 30-31 November 2014.

#15. In the context of educational program “Erasmus+”, he delivered a presentation entitled “Improvements in Computational Intelligence based on Intervals’ Numbers” organized in the Institute of Computer Science Research Institute (CSRI) by the Senior Lecturer in CS Dr. Jun Liu in the University of Ulster (Jordanstown Campus) in Belfast, Northern Ireland on 29 April 2015.

#16. In the context of educational program “Erasmus+” he delivered one lecture entitled “Novel Models of Computational Intelligence to Human-Robot Interaction Applications” organized by Associate Professor Dr. Anna Lekova, Chairwoman of the Hybrid Systems Department, Institute of Systems Engineering and Robotics, Bulgarian Academy of Sciences in Sofia, Bulgaria, 18-20 November 2015.

#17. In the context of educational program “Erasmus+” he delivered a series of lectures entitled “Information Technologies and Robotics for the Improvement of Children with Special Needs” organized by Associate Professor Dr. Miglena Simonska, Chairwoman of the Logopedics Department, South-West University Neofit Rilski in Blagoevgrad, Bulgaria, 15-21 March 2016.

#18. Invited Speaker at the 15th International Conference on Concept Lattices and Their Applications (CLA 2020), 29 June – 1 July 2020, Tallinn, Estonia. Program Co-chairs: Francisco José Valverde Albacete and Martin Trnecka. Lecture title: “The Lattice Computing (LC) Paradigm”. <http://ceur-ws.org/Vol-2668/> (Open Access)

#19. He delivered a series of lectures entitled “The Lattice Computing (LC) Information Processing Paradigm” organized by the Director of the laboratory “Signaux Systèmes Distribués et Intelligence Artificielle (SSDIA)” of Faculty “L’Ecole Normale Supérieure de l’Enseignement Technique (ENSET)”, Professor Dr. Omar Bouattane at the Université Hassan II de Casablanca (UH2C) in Casablanca. Morocco during 14-19 November 2021, in the context of the European educational program Erasmus+.

#20. He delivered a series of lectures entitled “Computational Modeling Based on The Lattice Computing (LC) Information Processing Paradigm” organized by the Director of the laboratory “Signaux Systèmes Distribués et Intelligence Artificielle (SSDIA)” της Σχολής “L’Ecole Normale Supérieure de l’Enseignement Technique (ENSET)”, Professor Dr. Omar Bouattane του Πανεπιστημίου Université Hassan II de Casablanca (UH2C) in Casablanca. Morocco during 2-7 October 2022, in the context of the European educational program Erasmus+.

Founder

#1. Founding member of the Greek Chapter of the IEEE Education Society, December 5, 2004, Athens.

#2. Founder and first Director of the “Human-Machines Interaction laboratory (HUMAIN-lab)” (see at <http://humain-lab.cs.ihu.gr/?lang=en>) at EMaTTech, Greek Government Gazette B’ 836, 30 March 2016.

Research Seminar Organizer

#1. Academic year 2002-2003 in the TEI of Kavala he organized a series of research seminars with participation 5+9=14 speakers from both academia and local industry, respectively.

#2. Academic year 2013-2014 in the Eastern Macedonia and Thrace Institute of Technology he organized a series of research lectures (1 lecture per month) for the faculty members of the institution toward getting to know each other’s research.

MSc/PhD degree supervisions

- #1. Supervisor of the student Theodora G. Trachanopoulou regarding her Master's Thesis entitled "Artificial Intelligence Techniques and Decision Making in Business and Finance -- An econometric classifier model based on disparate types of data" (M.Sc. Finance & Financial Information Systems, School of Finance, University of Greenwich -- School of Business & Economics, TEI of Kavala), 2004.
- #2. PhD Thesis Tribunal member for Mr. Ivan Villaverde de la Nava whose Ph.D. was conferred in December 2009 from the Universidad del País Vasco, Ciencias de la Computación e Inteligencia Artificial, San Sebastian, Spain with title "On Computational Intelligence Tools for Vision Based Navigation of Mobile Robots" and supervisor professor Manuel Graña Romay. Mr. Ivan Villaverde de la Nava carried out part of his Ph.D. work, as an exchange student, from 15 September 2008 to 15 December 2008 (3 months) in the Department of Industrial Informatics under the guidance of professor Kaburlasos.
- #3. PhD Thesis Tribunal member for Miss. Darya Chyzhyk whose Ph.D. was conferred in July 2013 from the Universidad del País Vasco, Ciencias de la Computación e Inteligencia Artificial, San Sebastian, Spain with title "Contributions of Lattice Computing to Medical Image Processing" and supervisor professor Manuel Graña Romay.
- #4. Supervisor of the student Christos Bazinas regarding his Master's Thesis entitled "Logical processing of simple sentences induced from sensors, inference by computational intelligence and machine learning models and social media posting" conferred in September 2019 from the Department of Computer Science, International Hellenic University (IHU), Kavala, Greece.
- #5. Supervisor of the student Christos Bazinas regarding his Ph.D. Dissertation entitled "Big data-time series prediction and autonomous robot applications in agriculture or/and education", 15 April 2021 -. Department Computer Science, International Hellenic University (IHU), Kavala, Greece.
- #6. Supervisor of the student George Siavalas regarding his Ph.D. Dissertation entitled "Design and development of an aerial autonomous helicopter (drone) for aerial spraying of orchards", 15 April 2021 -. Department Computer Science, International Hellenic University (IHU), Kavala, Greece.

Administrative

- #1. 1990-1991 : Elected vice-chairman for the student chapter of the Institute of Electrical and Electronics Engineers (IEEE) in Northern Nevada, USA.
- #2. 2003-2004, 2009-2011: Chairman of the Division of Computing Systems in the Department of Industrial Informatics at the Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece.
- #3. 2003-2004, 2009-2011: Vice chairman of the Department of Industrial Informatics at the Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece.
- #4. 2004-2008: Director of the Division of Informatics Applications in the Center for Technological Research of the Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece.
- #5. 2011-2013: Chairman of the Department of Industrial Informatics at the Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece.
- #6. 2012-2016: Elected member of the Council of the Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece.
- #7. 1/10/2016-7/5/2019: Representative of the Department of Computer and Informatics Engineering in the Research Committee of the Eastern Macedonia and Thrace Institute of Technology (EMaTTech).
- #8. 2016-today: Director of the "Human-Machines Interaction Laboratory (HUMAN-Lab)" in the Department of Industrial Informatics at the Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece (<http://human-lab.cs.ihu.gr/?lang=en>).
- #9. 26/07/2019-31/08/2022: Elected member of the special, 7-member Research Committee & Special Funds and Accounts Department of the International Hellenic University (IHU).

LIST OF PUBLICATIONS

Research Monographs (RM)

- [RM#1] V.G. Kaburlasos, *Towards a Unified Modeling and Knowledge-Representation Based on Lattice Theory – Computational Intelligence and Soft Computing Applications*. Heidelberg, Germany: Springer, series: Studies in Computational Intelligence, vol. 27, 2006, ISBN: 3-540-34169-2.

Patents (PA)

- [PA#1] “Robotic end-effector tool for simultaneous cutting and holding of an object with application in precision agriculture and particularly in viticulture” Patent No.: 1010229, Industrial Property Organisation, Athens, Greece 5 May 2022 (valid until 30 Mar 2041). Owners: Vassilis Kaburlasos, George Papakostas, Theodore Pachidis, Special Account Management Committee of the International Hellenic University (IHU).

Textbooks (TB)

- [TB#1] V.G. Kaburlasos, G.A. Papakostas, *Introduction to Computational Intelligence – A Holistic Approach*. (in Greek) Hellenic Academic Ebooks (www.kallipos.gr), 2016.
(<https://repository.kallipos.gr/handle/11419/3443>).

Edited Collective Volumes (ECV)

- [ECV#1] V.G. Kaburlasos, G.X. Ritter (eds.) *Computational Intelligence Based on Lattice Theory*. Heidelberg, Germany: Springer, series: Studies in Computational Intelligence, vol. 67, 2007, ISBN: 3-540-72686-9.
- [ECV#2] V. Kaburlasos, U. Priss, M. Graña (eds.), *LBM 2008 (CLA 2008), Proceedings of the Lattice-Based Modeling Workshop, in conjunction with The Sixth International Conference on Concept Lattices and Their Applications*. Olomouc, Czech Republic: Palacký University, 2008, ISBN: 978-80-244-2112-4.
- SCI [ECV#3] V.G. Kaburlasos (Guest Editor), Special Issue on: Information Engineering Applications Based on Lattices, *Information Sciences*, vol. 181, iss. 10, pp. 1771-1773, 2011 (16 papers, pp. 1774-2060).
- [ECV#4] G.A. Papakostas, A.G. Hatzimichailidis, V.G. Kaburlasos (eds.) *Handbook of Fuzzy Sets Comparison – Theory, Algorithms and Applications*. Science Gate Publishing (SGP) vol.6, <http://sciencegatepub.com/> , 2016, ISBN: 978-618-81418-1-2 (print), ISBN: 978-618-81418-2-9 (e-book).
(http://sciencegatepub.com/books/gcsr/gcsr_vol6/).
- SCI [ECV#5] V. G. Kaburlasos (Guest Editor), Special Issue on “Lattice Computing: A Mathematical Modelling Paradigm for Cyber-Physical System Applications”, *Mathematics*, vol. 10, no. 2, 271, 2022.
<https://www.mdpi.com/2227-7390/10/2/271> (Section “Computational and Applied Mathematics”)
https://www.mdpi.com/journal/mathematics/special_issues/Lattice_Computing (8 papers).
Citation: Kaburlasos, V.G. Lattice Computing: A Mathematical Modelling Paradigm for Cyber_Physical System Applications. *Mathematics* 2022, 10, 271.
<https://doi.org/10.3390/math10020271>
- SCI [ΕΣΤ#6] Lyuba Alboul, Jacques Penders, Peter Mitrouchev, Maya Dimitrova, Anna Lekova, Vassilis Kaburlasos (Guest Editors), Special Issue on “Emerging Technologies for Assistive Robotics: Current Challenges and Perspectives”, *Frontiers in Robotics and AI* (Section “Biomedical Robotics”) <https://www.frontiersin.org/research-topics/14419/emerging-technologies-for-assistive-robotics-current-challenges-and-perspectives> (4 papers).

Scientific Journals (SJ)

- SCI [SJ#1] D.D. Egbert, P.H. Goodman, V.G. Kaburlasos, J.H. Whitchev, “Generalization capabilities of subtle image pattern classifiers”, *IEEE Transactions on Knowledge and Data Engineering*, vol. 4, no. 2, pp. 172-177, 1992.
- J [SJ#2] V.G. Kaburlasos, V. Petridis, “Fuzzy Lattice Neurocomputing (FLN) : A novel connectionist scheme for versatile learning and decision making by clustering”, *International Journal of Computers and Their Applications*, vol. 4, no. 3, pp. 31-43, 1997.

- SCI [SJ#3] V. Petridis, V.G. Kaburlasos, "Fuzzy lattice neural network (FLNN): a hybrid model for learning", *IEEE Transactions on Neural Networks*, vol. 9, no. 5, pp. 877-890, 1998 (Special Issue on *Neural Networks and Hybrid Intelligent Models: Foundations, Theory, and Applications*. Guest Editors: C. Lee Giles, Ron Sun).
- SCI [SJ#4] V. Petridis, V.G. Kaburlasos, "Learning in the framework of fuzzy lattices", *IEEE Transactions on Fuzzy Systems*, vol. 7, no. 4, pp. 422-440, 1999.
Errata in *IEEE Transactions on Fuzzy Systems*, vol. 8, no. 2, p. 236, 2000.
- SCIE [SJ#5] V.G. Kaburlasos, V. Petridis, P. Brett, D. Baker, "Estimation of the stapes-bone thickness in stapedotomy surgical procedure using a machine-learning technique", *IEEE Transactions on Information Technology in Biomedicine*, vol. 3, no. 4, pp. 268-277, 1999.
- SCI [SJ#6] V.G. Kaburlasos, V. Petridis, "Fuzzy Lattice Neurocomputing (FLN) models", *Neural Networks*, vol. 13, no. 10, pp. 1145-1170, 2000.
- SCI [SJ#7] V. Petridis, V.G. Kaburlasos, "Clustering and classification in structured data domains using fuzzy lattice neurocomputing (FLN)", *IEEE Transactions on Knowledge and Data Engineering*, vol. 13, no. 2, pp. 245-260, 2001 (Special Section on *Connectionist Models for Learning in Structured Domains*. Guest Editors: Paolo Frasconi, Marco Gori, Alessandro Sperduti).
- SCIE [SJ#8] V.G. Kaburlasos, V. Spais, V. Petridis, L. Petrou, S. Kazarlis, N. Maslaris, A. Kallinakis, "Intelligent clustering techniques for prediction of sugar production", *Mathematics and Computers in Simulation*, vol. 60, iss. 3-5, pp. 159-168, 2002 (Special Issue on *Intelligent Forecasting, Fault Diagnosis, Scheduling, and Control*. Guest Editors: Spyros G. Tzafestas, Elpida S. Tzafestas).
- SCI [SJ#9] V. Petridis, S. Kazarlis, V.G. Kaburlasos, "ACES: An interactive software platform for self-instruction and self-evaluation in automatic control systems", *IEEE Transactions on Education*, vol. 46, no. 1, pp. 102-110, 2003.
- SCIE [SJ#10] V. Petridis, V.G. Kaburlasos, "FINkNN: a fuzzy interval number k-nearest neighbor classifier for prediction of sugar production from populations of samples", *Journal of Machine Learning Research*, vol. 4(Apr), pp. 17-37, 2003.
- SCIE [SJ#11] A. Kehagias, V. Petridis, V.G. Kaburlasos, P. Fragkou, "A comparison of word- and sense-based text categorization using several classification algorithms", *Journal of Intelligent Information Systems*, vol. 21(Nov), no. 3, pp. 227-247, 2003.
- SCI [SJ#12] V.G. Kaburlasos, "FINS: Lattice theoretic tools for improving prediction of sugar production from populations of measurements", *IEEE Transactions on Systems, Man and Cybernetics – Part B*, vol. 34, no. 2, pp. 1017-1030, 2004.
- SCIE [SJ#13] S.E. Papadakis, P. Tzionas, V.G. Kaburlasos, J.B. Theocharis, "A genetic based approach to the Type I structure identification problem", *Informatica*, vol. 16, no. 3, pp. 365-382, 2005.
- SCI [SJ#14] V.G. Kaburlasos, A. Kehagias, "Novel fuzzy inference system (FIS) analysis and design based on lattice theory. Part I: Working principles", *International Journal of General Systems*, vol. 35, no. 1, pp. 45-67, 2006.
- SCI [SJ#15] V.G. Kaburlasos, S.E. Papadakis, "Granular self-organizing map (grSOM) for structure identification", *Neural Networks*, vol. 19, no. 5, pp. 623-643, 2006.
- SCI [SJ#16] V.G. Kaburlasos, A. Kehagias, "Novel fuzzy inference system (FIS) analysis and design based on lattice theory", *IEEE Transactions on Fuzzy Systems*, vol. 15, no. 2, pp. 243-260, 2007.
- SCI [SJ#17] V.G. Kaburlasos, I.N. Athanasiadis, P.A. Mitkas, "Fuzzy lattice reasoning (FLR) classifier and its application for ambient ozone estimation", *International Journal of Approximate Reasoning*, vol. 45, no. 1, pp. 152-188, 2007.
- SCIE [SJ#18] V.G. Kaburlasos, C.C. Marinagi, V.T. Tsoukalas, "Personalized multi-student improvement based on Bayesian cybernetics", *Computers & Education*, vol. 51, no. 4, pp. 1430-1449, 2008.
- SCIE [SJ#19] V.G. Kaburlasos, S.E. Papadakis, "A granular extension of the fuzzy-ARTMAP (FAM) neural classifier based on fuzzy lattice reasoning (FLR)", *Neurocomputing*, vol. 72, no. 10-12, pp. 2067-2078, 2009 (Special Section on *Lattice Computing and Natural Computing*. Guest Editor: Manuel Graña).
- SCIE [SJ#20] V.G. Kaburlasos, L. Moussiades, A. Vakali, "Fuzzy lattice reasoning (FLR) type neural computation for weighted graph partitioning", *Neurocomputing*, vol. 72, no. 10-12, pp. 2121-2133, 2009 (Special Section on *Lattice Computing and Natural Computing*. Guest Editor: Manuel Graña).
- SCI [SJ#21] S.E. Papadakis, V.G. Kaburlasos, "Piecewise-linear approximation of nonlinear models based on probabilistically/possibilistically interpreted Intervals' Numbers (INs)", *Information Sciences*, vol. 180, no. 24, pp. 5060-5076, 2010.
- SCI [SJ#22] A. Amanatiadis, V.G. Kaburlasos, A. Gasteratos, S.E. Papadakis, "Evaluation of shape descriptors for shape-based image retrieval", *IET Image Processing*, vol. 5, iss. 5, pp. 493-499, 2011.
- SCI [SJ#23] V.G. Kaburlasos, S.E. Papadakis, A. Amanatiadis, "Binary image 2D shape learning and recognition based on lattice computing (LC) techniques", *Journal of Mathematical Imaging and Vision*, vol. 42, no.

- 2-3, pp. 118-133, 2012 (Special Issue on *Hybrid Artificial Intelligent Systems*. Guest Editors: Manuel Graña, Emilio Corchado, Michal Wozniak).
- SCIE [SJ#24] A.G. Hatzimichailidis, G.A. Papakostas, V.G. Kaburlasos, “A novel distance measure of intuitionistic fuzzy sets and its application to pattern recognition applications”, *International Journal of Intelligent Systems*, vol. 27, no. 4, pp. 396-409, 2012.
- SCI [SJ#25] G.A. Papakostas, A.G. Hatzimichailidis, V.G. Kaburlasos, “Distance and similarity measures between intuitionistic fuzzy sets: a comparative analysis from a pattern recognition point of view”, *Pattern Recognition Letters*, vol. 34, no. 14, pp. 1609-1622, 2013.
- SCI [SJ#26] V.G. Kaburlasos, S.E. Papadakis, G.A. Papakostas, “Lattice computing extension of the FAM neural classifier for human facial expression recognition”, *IEEE Transactions on Neural Networks and Learning Systems*, vol. 24, no. 10, pp. 1526-1538, 2013.
- J [SJ#27] V.G. Kaburlasos, L. Moussiades, “Induction of formal concepts by lattice computing techniques for tunable classification”, *Journal of Engineering Science and Technology Review*, vol. 7, no. 1, pp. 1-8, 2014.
- SCIE [SJ#28] V.G. Kaburlasos, T. Pachidis, “A Lattice-Computing ensemble for reasoning based on formal fusion of disparate data types, and an industrial dispensing application”, *Information Fusion*, vol. 16, pp. 68-83, 2014 (Special Issue on *Information Fusion in Hybrid Intelligent Fusion Systems*. Guest Editors: Michal Wozniak, Emilio Corchado and Manuel Graña).
- SCIE [SJ#29] S.E. Papadakis, V.G. Kaburlasos, G.A. Papakostas, “Two fuzzy lattice reasoning (FLR) classifiers and their application for human facial expression recognition”, *Journal of Multiple Valued Logic and Soft Computing*, vol. 22, no. 4-6, pp. 561-579, 2014 (Special Issue on *Uncertainty Modeling in Knowledge Engineering and Decision Making*. Guest Editors: Cengiz Kahraman and Farouk Yalaoui).
- SCI [SJ#30] V.G. Kaburlasos, A. Kehagias, “Fuzzy inference system (FIS) extensions based on lattice theory”, *IEEE Transactions on Fuzzy Systems*, vol. 22, no. 3, pp. 531-546, 2014.
- SCIE [SJ#31] Y. Jamshidi, V.G. Kaburlasos, “gsalNknn: A GSA optimized, lattice computing knn classifier”, *Engineering Applications of Artificial Intelligence*, vol. 35, pp. 277-285, 2014.
- SCIE [SJ#32] G.A. Papakostas, A. Savio, M. Graña, V.G. Kaburlasos, “A lattice computing approach to Alzheimer’s disease computer assisted diagnosis based on MRI data”, *Neurocomputing*, vol. 150, part A, pp. 37-42, 2015 (Special Issue on *Bioinspired and knowledge based techniques and applications*. Guest Editors: Manuel Graña and Bogdan Raducanu).
- SCI [SJ#33] V.G. Kaburlasos, G.A. Papakostas, “Learning distributions of image features by interactive fuzzy lattice reasoning (FLR) in pattern recognition applications”, *IEEE Computational Intelligence Magazine*, vol. 10, no. 3, pp. 42-51, 2015 (Special Issue on *New Trends of Learning in Computational Intelligence*. Guest Editors: Guang-Bin Huang, Erik Cambria, Kar-Ann Toh, Bernard Widrow, Zongben Xu).
- J [SJ#34] A.G. Hatzimichailidis, G.A. Papakostas, V.G. Kaburlasos, “A distance measure based on fuzzy D-implications: application in pattern recognition”, *British Journal of Mathematics & Computer Science*, vol. 14, no. 3, pp. 1-14, 2016.
- SCIE [SJ#35] Y. Zhang, D. Huang, W. Gao, V.G. Kaburlasos, “A decision making approach with linguistic weight and unavoidable incomparable ranking”, *International Journal of Computational Intelligence Systems*, vol. 12, no. 2, pp. 1102-1112, 2019.
- J [SJ#36] T. Pachidis, E. Vrochidou, C.I. Papadopoulou, V.G. Kaburlasos, S. Kostova, M. Bonković, V. Papić, “Integrating robotics in education and vice versa; shifting from blackboard to keyboard”, *International Journal of Mechanics and Control*, ISSN: 1590-8844, vol. 20, no. 01, June 2019, pp. 53-69.
- SCIE [SJ#37] E. Mavridou, E. Vrochidou, G.A. Papakostas, T. Pachidis, V.G. Kaburlasos, “Machine vision systems in precision agriculture for crop farming”, *Journal of Imaging*, vol. 5, no. 89, pp. 1-32, 2019. Doi:10.3390/jimaging5120089.
- SCIE [SJ#38] C. Lytridis, A. Lekova, C. Bazinas, M. Manios, V.G. Kaburlasos, “WINKNN: Windowed Intervals’ Number kNN classifier for efficient time-series applications”, *Mathematics*, vol. 8, no. 3, 413, 2020. <https://www.mdpi.com/2227-7390/8/3/413> (Special Issue on *Lattice Computing: A Mathematical Modelling Paradigm for Cyber-Physical System Applications – Section “Computational and Applied Mathematics”*. Guest Editor: Vassilis G. Kaburlasos) https://www.mdpi.com/journal/mathematics/special_issues/Lattice_Computing
- SCIE [SJ#39] A. Amanatiadis, V.G. Kaburlasos, Ch. Dardani, S.A. Chatzichristofis, A. Mitropoulos, “Social robots in special education: creating dynamic interactions for optimal experience”, *IEEE Consumer Electronics Magazine*, vol. 9, no. 3, pp. 39-45, May 2020. doi:10.1109/MCE.2019.2956218
- SCIE [SJ#40] C. Lytridis, C. Bazinas, G. Sidiropoulos, G.A. Papakostas, V.G. Kaburlasos, V.-A. Nikopoulou, V. Holeva, A. Evangelidou, “Distance special education delivery by social robots”, *Electronics* 2020, 9(6), 1034; <https://www.mdpi.com/2079-9292/9/6/1034> (Special Issue on *Applications and Trends in Social Robotics – Section “Artificial Intelligence”*. Guest Editors: M. Malfaz, J. Carlos Castillo, Á. Castro, F. Alonso).

- J [SJ#41] V.-A. Nikopoulou, V. Holeva, M.D. Kerasidou, P. Kechayas, M. Papadopoulou, E. Vrochidou, G.A. Papakostas, V.G. Kaburlasos, “Identifying linguistic cues; towards developing robots with empathy in autism interventions”, *Journal of Clinical Medicine of Kazakhstan*, vol. 2, no. 56, pp. 27-33, 2020. <https://www.clinmedkaz.org/download/identifying-linguistic-cues-towards-developing-robots-with-empathy-in-autism-interventions-9092.pdf>
- J [SJ#42] M. Qbadou, I. Salhi, H. El Fazazi, K. Mansouri, M. Manios, V. Kaburlasos, “Human-robot multilingual verbal communication – the ontological knowledge and learning-based models”, *Advances in Science, Technology and Engineering Systems (ASTES) Journal*, vol. 5, no. 4, pp. 540-547, 2020. <https://astesj.com/v05/i04/p64/> (Open Access)
- SCIE [SJ#43] J. Musić, M. Bonković, S. Kružić, T. Marasović, V. Papić, S. Kostova, M. Dimitrova, S. Saeva, M. Zamfirov, V. Kaburlasos, E. Vrochidou, G. Papakostas, T. Pachidis, “Robotics and information technologies in education: four countries from Alpe-Adria-Danube Region survey”, *International Journal of Technology and Design Education*. Springer Nature B.V. 2020, published online: 13 October 2020, DOI: 10.1007/s10798-020-09631-9
- SCIE [SJ#44] E. Vrochidou, K. Tziridis, A. Nikolaou, T. Kalampokas, G. A. Papakostas, T. P. Pachidis, S. Mamalis, S. Koundouras, V. G. Kaburlasos, “An autonomous grape-harvester robot: integrated system architecture”, *Electronics* 2021, 10(9), 1056; <https://doi.org/10.3390/electronics10091056> (Special Issue on *Control of Mobile Robots* – Section “Systems & Control Engineering”. Guest Editor: Vladan Papic).
- SCIE [SJ#45] E. Vrochidou, C. Lytridis, C. Bazinas, G.A. Papakostas, H. Wagatsuma, V.G. Kaburlasos, “Brain signals classification based on fuzzy lattice reasoning”, *Mathematics*, vol. 9, no. 9, 1063, 2021. <https://www.mdpi.com/2227-7390/9/9/1063> (Special Issue on *Numerical Analysis and Scientific Computing* – Section “Computational and Applied Mathematics”. Guest Editors: Theodore E. Simos, Charamos Tsitouras)
- SCIE [SJ#46] T. Kalampokas, E. Vrochidou, G. A. Papakostas, T. Pachidis, V. G. Kaburlasos. “Grape stem detection using regression convolutional neural networks”, *Computers and Electronics in Agriculture*. vol. 186, 106220, 2021. <https://doi.org/10.1016/j.compag.2021.106220>.
- SCIE [SJ#47] G. A. Papakostas, G. K. Sidiropoulos, C. I. Papadopoulou, E. Vrochidou, V. G. Kaburlasos, M. T. Papadopoulou, V. Holeva, V.-A. Nikopoulou, N. Dalivigkas, “Social robots in special education: a systematic review”. *Electronics*. 2021, 10 (12), 1398; <https://www.mdpi.com/2079-9292/10/12/1398> (Special Issue on *Recent Advances in Educational Robotics* – Section “Artificial Intelligence”. Guest Editors: Savvas A. Chatzichristofis and Zinon Zinonos)
- SCIE [SJ#48] G. A. Papakostas, G. K. Sidiropoulos, C. Lytridis, C. Bazinas, V. G. Kaburlasos, E. Kourampa, E. Karageorgiou, P. Kechayas, M. T. Papadopoulou, “Estimating children engagement interacting with robots in special education using machine learning”, *Mathematical Problems in Engineering*, Special Issue on “Recent Trends in Advance Robotic Systems”, vol. 2021, Article ID 9955212, <https://doi.org/10.1155/2021/9955212> (Open Access)
- J [SJ#49] E. Badeka, T. Kalampokas, E. Vrochidou, K. Tziridis, G. A. Papakostas, T. P. Pachidis, V. G. Kaburlasos, “Vision-based vineyard trunk detection and its integration into a grapes harvesting robot”, *International Journal of Mechanical Engineering and Robotics Research (IJMERR)*, vol. 10, no. 7, pp. 374-385, July 2021. <http://www.ijmerr.com/list-196-1.html> (Open Access)
- J [SJ#50] V. Holeva, V. A. Nikopoulou, P. Kechayas, M. D. Kerasidou, M. Papadopoulou, G. A. Papakostas, V. G. Kaburlasos, A. Evangelioi, “Robot-assisted relaxation training for children with autism spectrum disorders”, World Academy of Science, Engineering and Technology (WASET) International Journal of Psychological and Behavioral Sciences, *International Scholarly and Scientific Research & Innovation*, vol. 15, no. 8, pp. 711-714, August 2021. <https://publications.waset.org/10012152/robot-assisted-relaxation-training-for-children-with-autism-spectrum-disorders>
- SCIE [SJ#51] E. Vrochidou, C. Bazinas, M. Manios, G. A. Papakostas, T. P. Pachidis, V. G. Kaburlasos, “Machine vision for ripeness estimation in viticulture automation”, *Horticulturae* 2021, vol. 7, iss. 9, 282; <https://www.mdpi.com/2311-7524/7/9/282> (Open Access). (Special Issue on “Advances in Viticulture Production”. Guest Editor: Massimo Bertamini)
- SCIE [SJ#52] C. Lytridis, V. G. Kaburlasos, T. Pachidis, M. Manios, E. Vrochidou, T. Kalampokas, S. Chatzistamatis, “An overview of cooperative robotics in agriculture” <https://www.mdpi.com/2073-4395/11/9/1818>, *Agronomy* 2021, vol. 11, iss. 9, 1818; <https://www.mdpi.com/2073-4395/11/9> (Open Access). (Special Issue on “Worldwide Trends in Agronomy Research: Bibliometric Studies”. Guest Editors: Prof. Dr. Francisco Manzano Agugliaro, Dr. Esther Salmerón-Manzano)
- SCIE [SJ#53] V. G. Kaburlasos, C. Lytridis, E. Vrochidou, C. Bazinas, G. A. Papakostas, A. Lekova, O. Bouattane, M. Youssfi, T. Hashimoto, “Granule-based-classifier (GbC): a lattice computing scheme applied on tree data structures”, *Mathematics*, vol. 9, no. 22, 2889, 2021. <https://www.mdpi.com/2227-7390/9/22/2889> (Special Issue on *Lattice Computing: A Mathematical Modelling Paradigm for Cyber-Physical System*

- Applications* – Section “Computational and Applied Mathematics”. Guest Editor: Vassilis G. Kaburlasos) https://www.mdpi.com/journal/mathematics/special_issues/Lattice_Computing
- SCIE [SJ#54] C. Lytridis, V. G. Kaburlasos, C. Bazinas, G. A. Papakostas, G. Sidiropoulos, V.-A. Nikopoulou, V. Holeva, M. Papadopoulou, A. Evangeliou, “Behavioral data analysis of robot-assisted Autism Spectrum Disorder (ASD) interventions based on lattice computing techniques”, *Sensors*, vol. 22, no. 2, 621, 2022. <https://www.mdpi.com/1424-8220/22/2/621> (Special Issue on *Assistive Robots for Healthcare and Human-Robot Interaction*. Guest Editors: Grazia D’ Onofrio, Daniele Sancarlo) https://www.mdpi.com/journal/sensors/special_issues/assistive_robots_healthcare
- J [SJ#55] V. A. Nikopoulou, V. Holeva, P. Tatsiopoulou, V. G. Kaburlasos, A. E. Evangeliou, “A pediatric patient with autism spectrum disorder and comorbid compulsive behaviors treated with robot-assisted relaxation: a case report”, *Cureus* 14(2):e22409. doi:10.7759/cureus.22409 (Open Access)
- SCI [SJ#56] I. Salhi, M. Qbadou, S. Gouraguine, K. Mansouri, C. Lytridis, V. Kaburlasos, “Towards robot-assisted therapy for children with autism - the ontological knowledge models and reinforcement learning-based algorithms”, *Frontiers in Robotics and AI* – section *Biomedical Robotics*, 06 April 2022, vol. 9, Article 713964. doi:10.3389/frobt.2022.713964 (Special Issue on *Emerging Technologies for Assistive Robotics: Current Challenges and Perspectives*. Guest Editors: Lyuba Alboul, Jacques Penders, Peter Mitrouchev, Maya Dimitrova, Anna Lekova, Vassilis Kaburlasos) <https://www.frontiersin.org/research-topics/14419/emerging-technologies-for-assistive-robotics-current-challenges-and-perspectives>
- [SJ#57] C. Bazinas, E. Vrochidou, T. Kalampokas, A. Karampatea, V. G. Kaburlasos, “A non-destructive method for grape ripeness estimation using Intervals’ Numbers (INs) techniques”, *Agronomy*, vol. 12, no. 7, 1564, 2022. <https://www.mdpi.com/2073-4395/12/7/1564>
- [SJ#58] M. T. Papadopoulou, E. Karageorgiou, P. Kechayas, N. Geronikola, C. Lytridis, C. Bazinas, E. Kourampa, E. Avramidou, V. G. Kaburlasos, A. E. Evangeliou, “Efficacy of a Robot-Assisted Intervention in Improving Learning Performance of Elementary School Children with Specific Learning Disorders”, *Children*, vol. 9, iss. 8, 1155. <https://www.mdpi.com/2227-9067/9/8/1155>
- [SJ#59] K. D. Apostolidis, T. Kalampokas, T. P. Pachidis, V. G. Kaburlasos, “Grapevine plant image dataset for pruning”, *Data*, vol. 7, iss. 8, 110, 2022. <https://doi.org/10.3390/data7080110>
- [SJ#60] E. Vrochidou, V. N. Tsakalidou, I. Kalathas, T. Gkrimpizis, T. Pachidis, V. G. Kaburlasos, “An overview of end-effectors in agricultural robotic harvesting systems”, *Agriculture*, vol. 12, iss. 8, 1240, 2022. <https://doi.org/10.3390/agriculture12081240>
- [SJ#61] C. Chariskou, E. Vrochidou, A. J. Daniels, V. G. Kaburlasos, “Variable selection on reflectance NIR spectra for the prediction of TSS in intact berries of Thompson seedless grapes”, *Agronomy*, vol. 12, no. 9, 2113. <https://doi.org/10.3390/agronomy12092113>

Book Chapters (BC)

- [BC#1] V.G. Kaburlasos, V. Petridis, “Learning and decision-making in the framework of fuzzy lattices”. In: *New Learning Paradigms in Soft Computing*, L.C. Jain and J. Kacprzyk (eds.), pp. 55-96, 2002. Heidelberg, Germany: Physica-Verlag, series: Studies in Fuzziness and Soft Computing, vol. 84, ISBN: 3-7908-1436-9.
- [BC#2] V.G. Kaburlasos, “Granular enhancement of fuzzy-ART/SOM neural classifiers based on lattice theory”. In: *Computational Intelligence Based on Lattice Theory*, V.G. Kaburlasos and G.X. Ritter (eds.), pp. 3-23, 2007. Heidelberg, Germany: Springer, series: Studies in Computational Intelligence, vol. 67, ISBN: 3-540-72686-9.
- [BC#3] V.G. Kaburlasos, “Unified analysis and design of ART/SOM neural networks and fuzzy inference systems based on lattice theory”. In: *Computational and Ambient Intelligence*, F. Sandoval, A. Prieto, J. Cabestany, M. Graña (eds.), pp. 80-93, 2007. Springer-Verlag, series: Lecture Notes Computer Science (LNCS), vol. 4507, ISBN: 3-540-73006-0.
- [BC#4] V.G. Kaburlasos, “Neural/fuzzy computing based on lattice theory”. In: *Encyclopedia of Artificial Intelligence*, Juan Ramón Rabuñal Dopico, Julián Dorado de la Calle, Alejandro Pazos Sierra (eds.), pp. 1238-1243, 2009. Information Science Reference, IGI Global publication, ISBN: 1-599-04849-3.
- [BC#5] A. Amanatiadis, A. Gasteratos, S. Papadakis, V. Kaburlasos, “Image Stabilization in Active Robot Vision”. In: *Robot Vision*, Aleš Ude (ed.), pp. 261-274, 2010. Vukovar, Croatia: In-Tech, ISBN: 978-953-307-077-3.
- [BC#6] A.G. Hatzimichailidis, G.A. Papakostas, V.G. Kaburlasos, “On constructing distance and similarity measures based on fuzzy implications”. In: *Handbook of Fuzzy Sets Comparison – Theory, Algorithms and Applications*, George A. Papakostas, Anestis G. Hatzimichailidis, Vassilis G. Kaburlasos (eds.), 2016. Science Gate Publishing (SGP) vol. 6, http://sciencegatepub.com/books/gcsr/gcsr_vol6/.

- [BC#7] Y. Liu, V.G. Kaburlasos, A.G. Hatzimichailidis, Y. Xu, “Toward a synergy of a lattice implication algebra with fuzzy lattice reasoning – a lattice computing approach”. In: *Handbook of Fuzzy Sets Comparison – Theory, Algorithms and Applications*, George A. Papakostas, Anestis G. Hatzimichailidis, Vassilis G. Kaburlasos (eds.), 2016. Science Gate Publishing (SGP) vol. 6, http://sciencegatepub.com/books/gcsr/gcsr_vol6/.
- [BC#8] V. Kaburlasos, E. Vrochidou, “Social robots for pedagogical rehabilitation: trends and novel modeling principles”. In: *Cyber-Physical Systems for Social Applications*, M. Dimitrova & H. Wagatsuma (Eds.), pp. 1-21, 2019. Pennsylvania, USA. ISBN13: 9781522578796, DOI: 10.4018/978-1-5225-7879-6.

Other Journals (OJ)

- J [OJ#1] V.G. Kaburlasos, “The engineering of scientific induction”, *Journal of Liberal Arts*, vol. 4, no. 2, pp. 41-57, 1998.

LEGEND:

SCI: Science Citation Index \subset SCIE: SCI Expanded \equiv Web of Science (WoS) J: (other) Journal.

Journal Impact Factors

(the year of publication)

	Journal Name	Impact Factor	Publication Year
1	IEEE Transactions on Knowledge and Data Engineering	- 1.040	1992 2001
2	International Journal of Computers and Their Applications	-	1997
3	IEEE Transactions on Neural Networks	1.405	1998
	IEEE Transactions on Neural Networks and Learning Systems	4.37	2013/4
4	IEEE Transactions on Fuzzy Systems	1.596 2.137 6.306	1999 2007 2013/4
5	IEEE Transactions on Information Technology in Biomedicine	1.118	1999
6	Neural Networks	1.221 2.000	2000 2006
7	Mathematics and Computers in Simulation	0.316	2002
8	IEEE Transactions on Education	0.428	2003
9	Journal of Machine Learning Research	4.317	2003
10	Journal of Intelligent Information Systems	0.941	2003
11	IEEE Transactions on Systems, Man and Cybernetics – Part B	1.052	2004
12	Informatica	0.456	2005
13	International Journal of General Systems	0.620	2006
14	International Journal of Approximate Reasoning	1.220	2007
15	Computers & Education	2.190	2008
16	Neurocomputing	2.126 2.392	2009 2015
17	Information Sciences	2.833 2.833	2010 2011
18	IET Image Processing	0.639	2011
19	Journal of Mathematical Imaging and Vision	1.767	2012
20	International Journal of Intelligent Systems	1.416	2012
21	Pattern Recognition Letters	1.062	2013
22	Journal of Engineering Science and Technology Review	-	2014
23	Information Fusion	3.472	2013/4
24	Journal of Multiple Valued Logic and Soft Computing	0.667	2013/4
25	Engineering Applications of Artificial Intelligence	1.962	2013/4
26	IEEE Computational Intelligence Magazine	3.647	2015/6
27	Mathematics	1.747	2020
28	IEEE Consumer Electronics Magazine		2020
29	Electronics		2020

Conferences (C)

- [C#1] V.G. Kaburlasos, D.D. Egbert, P.H. Goodman, "Neurocomputing classification of biomedical image patterns," *Proceedings of the International Society for Mini and Microcomputers (ISMM) International Conference on Computer Applications in Design Simulation and Analysis*, Reno NV, 22-24 Feb. 1989.
- [C#2] P.H. Goodman, D.D. Egbert, V.G. Kaburlasos, "Whiplash detection using neural network processing of infrared thermograms," *Proceedings of the 18th Annual Meetings American Academy of Thermology*, Johns Hopkins, 17-19 May 1989, and an abstract in *The Journal of the American Academy of Thermology and The Intl College of Thermology*, Vol. 3, No. 2, 1989, pp. 139.
- [C#3] V.G. Kaburlasos, D.D. Egbert, E.C. Tacker, "Self-adaptive multidimensional Euclidean neural networks for pattern recognition," *Proceedings of the IEEE 1989 International Joint Conference on Neural Networks (IJCNN'89)*, Washington DC, 18-22 June 1989, vol. 2, pp. 595.
- [C#4] D.D. Egbert, V.G. Kaburlasos, P.H. Goodman, "Invariant feature extraction for neurocomputer analysis of biomedical images," *Proceedings of the Second Annual IEEE Symposium on Computer-Based Medical Systems*, Univ. of Minnesota, 26-27 June 1989, pp. 69-73.
- [C#5] V.G. Kaburlasos, E.C. Tacker, D.D. Egbert, "A plastic self-adaptive learning machine for pattern recognition," *Proceedings of the 1989 IEEE International Conference on Systems, Man and Cybernetics*, Cambridge MA, 14-17 November 1989, vol. 2, pp. 824-827.
- [C#6] D.D. Egbert, V.G. Kaburlasos, P.H. Goodman, "Neural network discrimination of subtle image patterns," *Proceedings of the IEEE 1990 International Joint Conference on Neural Networks (IJCNN'90)*, San-Diego CA, 14-17 June 1990, vol. 1, pp. 517-524.
- [C#7] V.G. Kaburlasos, N.G. Publicover, D.D. Egbert, G. Liu, I.E. Burbey, "Monitoring the propagation of electrical excitation in smooth muscle tissue: A B-spline approach," *Proceedings of the IASTED 1990 International Conference on Artificial Intelligence Applications and Neural Networks*, Zurich Switzerland, 25-27 June 1990.
- [C#8] V.G. Kaburlasos, D.D. Egbert, M. Rao, "A hardware implementation of the adaptive resonance theory neural network," *Proceedings of the 1991 Golden West Conference on Intelligent Systems*, Reno NV, 3-5 June 1991, pp. 21-28.
- [C#9] J.H. Whitehey, D.D. Egbert, V.G. Kaburlasos, P.H. Goodman, "Unsupervised neural network discrimination of subtle image patterns," *Proceedings of the 1991 Golden West Conference on Intelligent Systems*, Reno NV, 3-5 June 1991, pp. 1-8.
- [C#10] P.H. Goodman, V.G. Kaburlasos, D.D. Egbert, G.A. Carpenter, S. Grossberg, J.H. Reynolds, K. Hammermeister, G. Marshall, F. Grover, "Fuzzy ARTMAP neural network prediction of heart surgery mortality," *Proceedings of the Wang Conference on Neural Networks Learning, Recognition, and Control*, Boston MA, 14-17 May 1992, pp. 48.
- [C#11] A.J. Kelly, P.H. Goodman, V.G. Kaburlasos, D.D. Egbert, M.E. Hardin, "Neural network prediction of child sexual abuse", *Clinical Research*, vol. 40, iss. 1, pp. A99, 1992.
- [C#12] P.H. Goodman, V.G. Kaburlasos, D.D. Egbert, G.A. Carpenter, S. Grossberg, J.H. Reynolds, D.B. Rosen, A.J. Hartz, "Fuzzy ARTMAP neural network compared to linear discriminant analysis prediction of the length of hospital stay in patients with pneumonia," in *Fuzzy Logic Technology & Applications*, R.J. Marks II (ed.), chapter 11 Bioengineering, 1994. New York, NY: IEEE Press (*Proceedings of the IEEE 1992 Intl. Conf. on Systems, Man and Cybernetics*, Chicago IL, 18-21 October 1992, vol. 1, pp. 748-753).
- [C#13] V. Petridis, V. Kaburlasos, E. Paterakis, A. Kehagias, "Fuzzy, Neural, and Genetic Methods for Intelligent Control" (in Greek), *Proceedings of the 1995 Conference on Intelligent Control Systems*, Athens Greece, 14-15 December 1995, pp. 93-97.
- [C#14] V. Petridis, V.G. Kaburlasos, P. Brett, T. Parker, J.C.C. Day, "Two Level Fuzzy Lattice (2L-FL) supervised clustering : A new method for soft tissue identification in surgery," *Proceedings of the CESA / IMACS 1996 Multiconference*, Lille France, 9-12 July 1996, pp. 232-237.
- [C#15] V.G. Kaburlasos, V. Petridis, "Fuzzy lattice neurocomputing (FLN)," *Proceedings of the Fifth International Conference on Intelligent Systems*, Reno NV, 19-21 June 1996, pp. 56-60.
- [C#16] V. Petridis, V.G. Kaburlasos, "FLN: a fuzzy lattice neurocomputing scheme for clustering," *Proceedings of the 1996 World Congress on Neural Networks*, San Diego CA, 15-20 September 1996, pp. 942-945.
- [C#17] V. Kaburlasos, V. Petridis, B. Allotta, P. Dario, "Automatic detection of bone breakthrough in orthopedics by fuzzy lattice reasoning (FLR): the case of drilling in the osteosynthesis of long bones," *Proceedings of the Mechatronical Computer Systems for Perception and Action (MCPA'97)*, Pisa Italy, 10-12 February 1997, pp. 33-40.
- [C#18] V.G. Kaburlasos, V. Petridis, P. Brett, D. Baker, "On-line estimation of the stapes-bone thickness in stapedotomy by learning a linear association of the force and torque drilling profiles," *Proceedings of the*

- IASTED 1997 International Conference on Intelligent Information Systems (ISS'97)*, Grand Bahama Island, Bahamas, 8-10 December 1997, pp. 80-84.
- [C#19] V.G. Kaburlasos, V. Petridis, P. Brett, D. Baker, "Learning a linear association of drilling profiles in stapedotomy surgery," *Proceedings of the IEEE 1998 International Conference on Robotics & Automation (ICRA'98)*, Leuven, Belgium, 16-20 May 1998, vol.1, pp. 705-710.
- [C#20] V.G. Kaburlasos, V. Petridis, "A unifying framework for hybrid information processing," *Proceedings of the ISCA 7th International Conference on Intelligent Systems (ICIS'98)*, Eds. C. Looney and J. Castaing. Melun, France, 1-2 July 1998, pp. 68-71. ISBN: 1-880843-24-2.
- [C#21] V. Petridis, V. Kaburlasos, A. Kehagias, "Application of Intelligent Control Techniques in Surgical Operations" (in Greek), *Proceedings of the 2nd Conference on Technology and Automation*, Thessaloniki, Greece, 2-3 October 1998, pp. 182-187.
- [C#22] V.G. Kaburlasos, V. Petridis, "Regression on heterogeneous fuzzy data," *Proceedings of the 7th European Congress on Intelligent Techniques and Soft Computing (EUFIT'99)*, Aachen, Germany, 13-16 September 1999, session CC2.
- [C#23] V. Petridis, V.G. Kaburlasos, "Modeling of systems using heterogeneous data," *Proceedings of the 1999 IEEE International Conference Systems, Man & Cybernetics (IEEE SMC'99)*, Tokyo, Japan, 12-15 October 1999, session FQ04, pp. V308-V313.
- [C#24] V. Petridis, V.G. Kaburlasos, "An intelligent mechatronics solution for automated tool guidance in the epidural surgical procedure," *Proceedings of the 7th Annual Conference on Mechatronics and Machine Vision in Practice (M2VIP'00)*, Hervey Bay, Australia, 19-21 September 2000, pp. 201-206.
- [C#25] V. Petridis, V.G. Kaburlasos, S. Kazarlis, L. Petrou, G. Hassapis, "Simulation and hypertext: Real time educational software systems" (in Greek), *Proceedings of the Panhellenic Conference on Greek Education Research*, Athens, Greece, 21-23 September 2000, pp. 200-206.
- [C#26] V.G. Kaburlasos, V. Spais, V. Petridis, L. Petrou, S. Kazarlis, N. Maslaris, A. Kallinakis, "Intelligent clustering techniques for prediction of sugar production," *Proceedings of the European Workshop on Intelligent Forecasting, Diagnosis and Control*, Santorini, Greece, 24-28 June 2001.
- [C#27] V. Petridis, L. Petrou, V.G. Kaburlasos, V. Spais, S. Kazarlis, "Models for predicting sugar production in Greece," *Proceedings of the Panhellenic Conference on Automation, Robotics and Industrial Production – The Role of Information Technologies*, Santorini, Greece, 28-30 June 2001.
- [C#28] V. Petridis, V.G. Kaburlasos, P. Fragkou, A. Kehagias, "Text classification using the σ -FLNMAP neural network," *Proceedings of the 2001 International Joint Conference on Neural Networks (IJCNN'2001)*, Washington D.C., 14-19 July 2001, vol. 2, pp. 1362-1367.
- [C#29] V.G. Kaburlasos, "Novel fuzzy system modeling for automatic control applications," *Proceedings of the 4th Intl. Conference on Technology & Automation*, Thessaloniki, Greece, 5-6 October 2002, pp. 268-275.
- [C#30] V.G. Kaburlasos, S. Kazarlis, " σ -FLNMAP with Voting (σ FLNMAPwV): A genetically optimized ensemble of classifiers with the capacity to deal with partially-ordered, disparate types of data. Application to financial problems," *Proceedings of the 4th Intl. Conference on Technology & Automation*, Thessaloniki, Greece, 5-6 October 2002, pp. 276-281.
- [C#31] V.G. Kaburlasos, V. Petridis, "Improved prediction of industrial yield based on tools from a normed linear space of Fuzzy Interval Numbers (FINs)," *Proceedings of the 11th Mediterranean Conference on Control and Automation (MED'03)*, Rhodes, Greece, 18-20 June 2003, session FM1-B.
- [C#32] A. Cripps, V.G. Kaburlasos, N. Nguyen, S.E. Papadakis, "Improved experimental results using Fuzzy Lattice Neurocomputing (FLN) Classifiers," *Proceedings of the International Conference on Machine Learning: Models, Technologies and Applications (MLMTA'03)*, Las Vegas, NV, 23-26 June 2003, pp. 161-166.
- [C#33] I.N. Athanasiadis, V.G. Kaburlasos, P.A. Mitkas, V. Petridis, "Applying machine learning techniques on air quality data for real-time decision support," *Proceedings 1st Intl. NAISO Symposium on Information Technologies in Environmental Engineering (ITEE'2003)*, Gdansk, Poland, 24-27 June 2003. Technical Session 2: Practical Applications and Experiences. Abstract in ICSC-NAISO Academic Press, Canada (ISBN:3906454339), p.51.
- [C#34] V.G. Kaburlasos, L. Moussiadis, V. Tsoukalas, A. Iliopoulou, T. Alevizos, "Adaptive technological education delivery and student examination based on machine-learning tools," *Supplementary Proceedings International Conference on Artificial Neural Networks & International Conference on Neural Information Processing (ICANN/ICONIP 2003)*, Istanbul, Turkey, 26 – 29 June 2003, pp. 478-481 (invited paper in Special Session SS05: Machine Learning Advances for Engineering Education).
- [C#35] A. Cripps, N. Nguyen, V.G. Kaburlasos, "Three improved Fuzzy Lattice Neurocomputing (FLN) classifiers," *Proceedings of the 2003 International Joint Conference on Neural Networks (IJCNN'2003)*, Portland, OR, 20-24 July 2003, vol. 3, pp. 1957-1962.

- [C#36] V.G. Kaburlasos, “Improved Fuzzy Lattice Neurocomputing (FLN) for semantic neural computing,” *Proceedings of the 2003 International Joint Conference on Neural Networks (IJCNN’2003)*, Portland, OR, 20-24 July 2003, vol. 3, pp. 1850-1855.
- [C#37] V.G. Kaburlasos, S.E. Papadakis, S. Kazarlis, “A genetically optimized ensemble of σ -FLNMAP neural classifiers based on non-parametric probability distribution functions”, *Proceedings of the 2003 International Joint Conference on Neural Networks (IJCNN’2003)*, Portland, OR, 20-24 July 2003, vol. 1, pp. 426-431.
- [C#38] V.G. Kaburlasos, “A device for linking brain to mind based on lattice theory”, *Proceedings of the 8th International Conference on Cognitive and Neural Systems (ICNS 2004)*, Boston University, Boston, MA, 19-22 May 2004, p. 58.
- [C#39] S.E. Papadakis, C.C. Marinagi, V.G. Kaburlasos, M.K. Theodorides, “Estimation of industrial production using the granular self-organizing map (grSOM)”, *Proceedings of the 12th Mediterranean Conference on Control and Automation (MED’04)*, Kusadasi, Turkey, 6-9 June 2004, session TuM2-D.
- [C#40] V.G. Kaburlasos, S.E. Papadakis, “grSOM: A granular extension of the self-organizing map for structure identification applications”, *Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2004)*, Budapest, Hungary, 25-29 July 2004, vol. 2, pp. 789-794.
- [C#41] V.G. Kaburlasos, A. Kehagias, “Novel analysis and design of fuzzy inference systems based on lattice theory”, *Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2004)*, Budapest, Hungary, 25-29 July 2004, vol.1 pp. 281-286.
- [C#42] V.G. Kaburlasos, C.C. Marinagi, V.T. Tsoukalas, “PARES: A software tool for computer-based testing and evaluation used in the Greek higher education system”, *Proceedings of the 4th IEEE International Conference on Advanced Learning Technologies (ICALT 2004)*, Joensuu, Finland, 30 August – 1 September 2004, pp. 771-773.
- [C#43] C.C. Marinagi, V.T. Tsoukalas, V.G. Kaburlasos, “Work in Progress – Development and use of a software tool for improving the average student performance in the Greek higher education system”, *Proceedings of the 34th ASEE/IEEE Frontiers in Education Conference (FIE 2004)*, Savannah, Georgia, 20-23 October 2004, session S3B, pp. 18-19.
- [C#44] V.G. Kaburlasos, V. Chatzis, V. Tsiantos, M. Theodorides, “granular Self-Organizing Map (grSOM) neural network for industrial quality control”, *Proceedings of SPIE, Mathematical Methods in Pattern and Image Analysis*, JT Astola, I Täbuş, J Barrera (eds.), San Diego, California, 3-4 August 2005, vol. 5916, pp. 59160J: 1-10.
- [C#45] S.E. Papadakis, V.G. Kaburlasos, “mass-grSOM: a flexible rule extraction for classification”, *5th Workshop on Self-Organizing Maps (WSOM 2005)*, Paris, France, 5-8 September 2005, pp. 553-560.
- [C#46] V. Chatzis, V.G. Kaburlasos, M. Theodorides, “An image processing method for particle size and shape estimation”, *Proceedings of the 2nd International Scientific Conference on Computer Science*, Chalkidiki, Greece, 30 September - 2 October 2005, part II, pp. 7-12.
- [C#47] C.C. Marinagi, V.T. Tsoukalas, V.G. Kaburlasos, “PARES: A software platform for adaptive evaluation and self-evaluation of students” (in Greek), *Proceedings of the 3rd International Conference on Open and Distance Learning (ICODL 2005) – Applications of Pedagogy and Technology*, Patras, Greece, 11-13 November 2005, vol. A, pp. 638-650.
- [C#48] C. Marinagi, T. Alevizos, V.G. Kaburlasos, C. Skourlas, “Fuzzy interval number (FIN) techniques for cross language information retrieval”, *Proceedings of the 8th International Conference on Enterprise Information Systems (ICEIS 2006)*, Paphos, Cyprus, 23-27 May 2006, pp. 249-256.
- [C#49] A. Hatzimichailidis, V. Kaburlasos, B. Papadopoulos, “An implication in fuzzy sets”, *Proceedings of the World Congress on Computational Intelligence (WCCI) 2006, FUZZ-IEEE Program*, Vancouver, BC, Canada, 16-21 July 2006, pp. 203-208.
- [C#50] I.N. Athanasiadis, V. Kaburlasos, “Air quality assessment using fuzzy lattice reasoning (FLR)”, *Proceedings of the World Congress on Computational Intelligence (WCCI) 2006, FUZZ-IEEE Program*, Vancouver, BC, Canada, 16-21 July 2006, pp. 231-236.
- [C#51] V.G. Kaburlasos, A. Christoforidis, “Granular auto-regressive moving average (grARMA) model for predicting a distribution from other distributions. real-world applications”, *Proceedings of the World Congress on Computational Intelligence (WCCI) 2006, FUZZ-IEEE Program*, Vancouver, BC, Canada, 16-21 July 2006, pp. 791-796.
- [C#52] C.C. Marinagi, V.G. Kaburlasos, “Work in Progress – Practical computerized adaptive assessment based on bayesian decision theory”, *Proceedings of the 36th ASEE/IEEE Frontiers in Education Conference (FIE 2006)*, San Diego, CA, 28-31 October 2006, session S2E, pp. 23-24.
- [C#53] T. Alevizos, V.G. Kaburlasos, S. Papadakis, C. Skourlas, “Fuzzy interval numbers (FINs) techniques and applications”, *Proceedings of the 11th Panhellenic Conference in Informatics (PCI 2007)*, Patras, Greece, 18-20 May 2007, vol. B, pp. 255-264.

- [C#54] T. Alevizos, V.G. Kaburlasos, S. Papadakis, C. Skourlas, P. Belsis, “Fuzzy interval number (FIN) techniques for multilingual and cross language information retrieval”, *Proceedings of the 9th International Conference on Enterprise Information Systems (ICEIS 2007)*, Funchal, Madeira - Portugal, 12-16 June 2007, pp. 348-355.
- [C#55] S. Papadakis, V.G. Kaburlasos, “Induction of classification rules from histograms”, *Joint Conference on Information Sciences (JCIS 2007), Proceedings of the 8th International Conference on Natural Computing (NC 2007)*, Salt Lake City, Utah, 18-24 July 2007, pp. 1646-1652.
- [C#56] V.G. Kaburlasos, S. Papadakis, “Fuzzy lattice reasoning (FLR) implies a granular enhancement of the fuzzy-ARTMAP classifier”, *Joint Conference on Information Sciences (JCIS 2007), Proceedings of the 8th International Conference on Natural Computing (NC 2007)*, Salt Lake City, Utah, 18-24 July 2007, pp. 1610-1616.
- [C#57] V.G. Kaburlasos, L. Moussiades, A. Vakali, “Granular graph clustering in the Web”, *Joint Conference on Information Sciences (JCIS 2007), Proceedings of the 8th International Conference on Natural Computing (NC 2007)*, Salt Lake City, Utah, 18-24 July 2007, pp. 1639-1645.
- [C#58] C. Skourlas, T. Alevizos, P. Belsis, K. Fragos, V.G. Kaburlasos, S. Papadakis, “Fuzzy Interval Numbers (FINs) techniques and its applications in natural language queries processing and documents classification”, *Proceedings of the 3rd Balkan Conference in Informatics (BCI 2007)*, Sofia, Bulgaria, 27-29 September 2007, pp. 17-28.
- [C#59] C.C. Marinagi, V.G. Kaburlasos, V.T. Tsoukalas, “An architecture for an adaptive assessment tool”, *Proceedings of the 37th ASEE/IEEE Frontiers in Education Conference (FIE 2007)*, Milwaukee, Wisconsin, 10-13 October 2007, session T3D: Distance Learning Assessment Tools, pp. 11-16.
- [C#60] C.C. Marinagi, V.T. Tsoukalas, V.G. Kaburlasos, “Modifying a client/server architecture to a Web-based architecture for adaptive assessment”, *Proceedings entitled “Operations Research and Tourism Development” of the 20th National Conference of the Greek Operations Research Society*, Spetses island, Greece, 19-21 June 2008, vol. B, pp. 873-884.
- [C#61] C.C. Marinagi, V.G. Kaburlasos, “Bayesian Decision Theory for Multi-category Adaptive Testing”, in *American Institute of Physics Conference Proceedings 1048*, T.E. Simos, G. Psihoyios, Ch. Tsitouras (eds.), pp. 376-379 (International Conference on Numerical Analysis and Applied Mathematics (ICNAAM) 2008, Kos, Greece, 16-20 Sept. 2008).
- [C#62] V.G. Kaburlasos, S.E. Papadakis, “Piecewise-linear approximation of nonlinear models based on Interval Numbers (INs)”, *Proceedings of the Lattice-Based Modeling (LBM 2008) Workshop, in conjunction with The Sixth International Conference on Concept Lattices and their Applications (CLA 2008)*, Olomouc, Czech Republic, 21-23 October 2008, pp. 13-22.
- [C#63] S.E. Papadakis, V.G. Kaburlasos, “Computation of a sufficient condition for system input redundancy”, *Proceedings of the Lattice-Based Modeling (LBM 2008) Workshop, in conjunction with The Sixth International Conference on Concept Lattices and their Applications (CLA 2008)*, Olomouc, Czech Republic, 21-23 October 2008, pp. 23-31.
- [C#64] A.G. Hatzimichailidis, V.G. Kaburlasos, “A novel fuzzy implication stemming from a fuzzy lattice inclusion measure”, *Proceedings of the Lattice-Based Modeling (LBM 2008) Workshop, in conjunction with The Sixth International Conference on Concept Lattices and their Applications (CLA 2008)*, Olomouc, Czech Republic, 21-23 October 2008, pp. 59-66.
- [C#65] A. Amanatiadis, V.G. Kaburlasos, A. Gasteratos, S.E. Papadakis, “A comparative study of invariant descriptors for shape retrieval”, *Proceedings of the 2009 IEEE International Workshop on Imaging Systems & Techniques (IST 2009)*, Shenzhen, China, 11-12 May 2009, pp. 391-394.
- [C#66] V.G. Kaburlasos, A. Amanatiadis, S.E. Papadakis, “2-D shape representation and recognition by lattice computing techniques”, In: Emilio Corchado, Manuel Graña, Alexandre Manhaes Savio (Eds.), *Hybrid Artificial Intelligence Systems, Proceedings, Part II of the 5th International Conference (HAIS '10)*, San Sebastián, Spain, 23-25 June 2010, pp. 391-398. Springer-Verlag, series: Lecture Notes in Artificial Intelligence (LNAI), vol. 6077.
- [C#67] V.G. Kaburlasos, “Granular fuzzy inference system (FIS) design by lattice computing”, In: Emilio Corchado, Manuel Graña, Alexandre Manhaes Savio (Eds.), *Hybrid Artificial Intelligence Systems, Proceedings, Part II of the 5th International Conference (HAIS '10)*, San Sebastián, Spain, 23-25 June 2010, pp. 410-417. Springer-Verlag, series: Lecture Notes in Artificial Intelligence (LNAI), vol. 6077.
- [C#68] C.C. Marinagi, V.G. Kaburlasos, “Web-based adaptive self-assessment of Greek higher education students: students’ perspective”, *Proceedings of the International Conference on Education and New Learning Technologies (EDULEARN 12)*, Barcelona, Spain, 2-4 July 2012. IATED Publications, pp. 2439-2448.
- [C#69] S.E. Papadakis, V.G. Kaburlasos, G.A. Papakostas, “Fuzzy lattice reasoning (FLR) classifier for human facial expression recognition”, *Proceedings of the 10th International FLINS Conference on Uncertainty*

- Modeling in Knowledge Engineering and Decision Making (FLINS 2012)*, Istanbul, Turkey, 26-29 August 2012. World Scientific Proceedings Series on Computer Engineering and Information Science, vol. 7, pp. 633-638.
- [C#70] A.G. Hatzimichailidis, G.A. Papakostas, V.G. Kaburlasos, “A study on fuzzy D-implications”, *Proceedings of the 10th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making (FLINS 2012)*, Istanbul, Turkey, 26-29 August 2012. World Scientific Proceedings Series on Computer Engineering and Information Science, vol. 7, pp. 708-713.
- [C#71] T. Pachidis, V.G. Kaburlasos, “Person identification based on lattice computing k-nearest-neighbor fingerprint classification”, *16th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES-2012)*, San Sebastián, Spain, 10-12 September 2012, *Advances in Knowledge-Based and Intelligent Information and Engineering Systems*. IOS Press, 2012, Manuel Graña, Carlos Toro, Jorge Posada, R. J. Howlett, L. C. Jain (Eds.), pp. 1720-1729.
- [C#72] V.G. Kaburlasos, “Fuzzy lattice reasoning (FLR) extensions to lattice-valued logic”, *16th Panhellenic Conference on Informatics (PCI 2012)*, Piraeus, Greece, 5-7 October 2012. IEEE 2012 Copyright, Dimitrios D. Vergados, Costas Lambrinouidakis (Eds.), pp. 445-448.
- [C#73] V.G. Kaburlasos, G.A. Papakostas, T. Pachidis, A. Athinellis, “Intervals’ numbers (INs) interpolation /extrapolation”, *Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2013)*, Hyderabad, India, 7-10 July 2013.
- [C#74] G.A. Papakostas, V.G. Kaburlasos, T. Pachidis, “Thermal infrared face recognition based on lattice computing (LC) techniques”, *Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2013)*, Hyderabad, India, 7-10 July 2013.
- [C#75] V.T. Tsoukalas, V.G. Kaburlasos, C. Skourlas, “A granular, parametric KNN classifier”, *17th Panhellenic Conference on Informatics (PCI 2013)*, Thessaloniki, Greece, 19-21 September 2013, pp. 319-326.
- [C#76] G.A. Papakostas, V.G. Kaburlasos, “Lattice Computing (LC) meta-representation for pattern classification”, *Proceedings of the World Congress on Computational Intelligence (WCCI) 2014, FUZZ-IEEE Program*, Beijing, China, 6-11 July 2014, pp. 39-44.
- [C#77] V.G. Kaburlasos, V. Tsoukalas, L. Moussiades, “FCknn: a granular knn classifier based on formal concepts”, *Proceedings of the World Congress on Computational Intelligence (WCCI) 2014, FUZZ-IEEE Program*, Beijing, China, 6-11 July 2014, pp. 61-68.
- [C#78] J. Maiora, G.A. Papakostas, V.G. Kaburlasos, M. Graña, “A proposal of texture features for interactive CTA segmentation by active learning”, *KES International Conference on Innovation in Medicine and Healthcare (InMed-14)*, San Sebastian, Spain, 9-11 July 2014, pp. 311-320.
- [C#79] G.A. Papakostas, E.I. Papageorgiou, V.G. Kaburlasos, “Linguistic fuzzy cognitive map (LFCM) for pattern recognition”, *Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2015)*, Istanbul, Turkey, 2-5 August 2015.
- [Σ#80] D. Vassis, B. A. Kampouraki, P. Belsis, V. Zafeiris, N. Vassilas, E. Galiotou, N. N. Karanikolas, K. Fragos, V.G. Kaburlasos, S.E. Papadakis, V. Tsoukalas, C. Skourlas, “Using Neural Networks and SVMs for Automatic Medical Diagnosis: A Comprehensive Review”, *International Conference on Integrated Information (IC-ININFO 2014)*, AIP Conf. Proc. 1644, 32-36 (2015); doi: 10.1063/1.4907814
- [C#81] V.G. Kaburlasos, T. Pachidis, G.A. Papakostas, M. Dimitrova, S. Kostova, I. Chavdarov, “Transformations from a symbol language to a sign language by a humanoid robot for blended learning: preliminary application results”, *Proceedings of the International Association for Blended Learning Conference (IABL 2016)*, Kavala, Greece, 22-24 April 2016, pp. 142-145.
- [C#82] M. Dimitrova, A. Lekova, I. Chavdarov, S. Kostova, A. Krastev, C. Roumenin, V. Stancheva, A. Andreeva, V.G. Kaburlasos, T. Pachidis, “A multidisciplinary framework for blending robotics in education of children with special learning needs”, *Proceedings of the International Association for Blended Learning Conference (IABL 2016)*, Kavala, Greece, 22-24 April 2016, pp. 152-155.
- [C#83] A. Amanatiadis, V.G. Kaburlasos, Ch. Dardani, S.A. Chatzichristofis, “Interactive social robots in special education”, *Proceedings of the 2017 IEEE 7th International Conference on Consumer Electronics – Berlin (ICCE-Berlin)*, Berlin, Germany, 3-6 September 2017, pp. 210-213.
- [C#84] V.G. Kaburlasos, Ch. Dardani, M. Dimitrova, A. Amanatiadis, “Multi-robot engagement in special education: a preliminary study in autism”, *Proceedings of the 36th IEEE International Conference on Consumer Electronics (ICCE)*, Las Vegas, USA, 12-15 January 2018, pp. 995-996.
- [C#85] V. Kaburlasos, C. Bazinas, G. Siavalas, G. Papakostas, “Linguistic social robot control by crowd-computing feedback”, No. 18-2, *Proceedings of the 2018 JSME Conference on Robotics and Mechatronics (ROBOMECH 2018)*, Kitakyushu, Japan, 2-5 June 2018, poster 1A1-B13.

- [C#86] C. Lytridis, E. Vrochidou, V. Kaburlasos, “Emotional speech recognition toward modulating the behavior of a social robot”, No. 18-2, *Proceedings of the 2018 JSME Conference on Robotics and Mechatronics (ROBOMECH 2018)*, Kitakyushu, Japan, 2-5 June 2018, poster 1A1-B14.
- [C#87] M. Graña, M. Dimitrova, V. Kaburlasos, “CybSPEED project description: aims and means”, No. 18-2, *Proceedings of the 2018 JSME Conference on Robotics and Mechatronics (ROBOMECH 2018)*, Kitakyushu, Japan, 2-5 June 2018, poster 1P1-A13.
- [C#88] G. Papakostas, G. Sidiropoulos, M. Bella, V. Kaburlasos, “Social robots in special education: current status and future challenges”, No. 18-2, *Proceedings of the 2018 JSME Conference on Robotics and Mechatronics (ROBOMECH 2018)*, Kitakyushu, Japan, 2-5 June 2018, poster 1P1-A15.
- [C#89] C. Lytridis, E. Vrochidou, S. Chatzistamatis, V. Kaburlasos, “Social engagement interaction games between children with autism and humanoid robot NAO”, *Proceedings of the 9th International Conference on European Transnational Educational (ICEUTE’18)*, San Sebastian, Spain, 6-8 June 2018. In: Graña M. et al. (eds) International Joint Conference SOCO’18-CISIS’18-ICEUTE’18. SOCO’18-CISIS’18-ICEUTE’18 2018. *Advances in Intelligent Systems and Computing (AISC)*, vol 771, pp. 562-570, 2019. Springer, Cham.
- [C#90] T. Pachidis, E. Vrochidou, V.G. Kaburlasos, S. Kostova, M. Bonković, V. Papić, “Social robotics in education: state-of-the-art and directions”, *Proceedings of the 27th International Conference on Robotics in Alpe-Adria-Danube Region (RAAD 2018)*, Patras, Greece, 6-8 June 2018.
- [C#91] G.A. Papakostas, V.G. Kaburlasos, “Modeling in cyber-physical systems by lattice computing techniques: the case of image watermarking based on intervals’ numbers”, *Proceedings of the World Congress on Computational Intelligence (WCCI) 2018, FUZZ-IEEE Program*, Rio de Janeiro, Brazil, 8-13 July 2018, pp. 491-496.
- [C#92] E. Vrochidou, M. Manios, V. G. Kaburlasos, F. Panagiotopoulos, C. Aitsidis, V. Ferelis, “Design of social robots using open-source robotic platforms”, *Proceedings of the International Conference on Robotics & Mechatronics and Social Implementations*, Varna, Bulgaria, 28 Aug. - 01 Sep. 2018, pp. 21-26.
E. Vrochidou, M. Manios, V. G. Kaburlasos, F. Panagiotopoulos, Ch. Aitsidis, V. Ferelis, “Design of social robots using open-source robotic platforms”, *Complex Control Systems* (an Open Access journal, <http://ir.bas.bg/ccs/index.html>), vol. 1, pp. 21-26, 2018.
- [C#93] M. Dimitrova, H. Wagatsuma, V. Kaburlasos, A. Krastev, I. Kolev, “Towards social cognitive neuropsychology account of human-robot interaction”, *Proceedings of the International Conference on Robotics, Mechatronics and Social Implementation*, Varna, Bulgaria, 28 August - 01 September 2018, pp. 12-16.
M. Dimitrova, H. Wagatsuma, V. Kaburlasos, A. Krastev, I. Kolev, “Towards social cognitive neuropsychology account of human-robot interaction”, *Complex Control Systems* (an Open Access journal, <http://ir.bas.bg/ccs/index.html>), vol. 1, pp. 12-16, 2018.
- [C#94] S. Kostova, M. I. Dimitrova, S. Saeva, M. Zamfirov, V. Kaburlasos, E. Vrochidou, M. Bonković, T. Pachidis, S. Kružić, T. Marasović, J. Musić, V. Papić, “Identifying needs of robotic and technological solutions for the classroom”, *Proceedings of the 26th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2018), Symposium on: Robotic and ICT assisted wellbeing*, Split, Croatia, 13-15 September 2018.
- [C#95] A. Amanatiadis, V. Kaburlasos, E. Kosmatopoulos, “Understanding deep convolutional networks through gestalt theory”, *Proceedings of the 2018 IEEE International Workshop on Imaging Systems & Techniques (IST 2018)*, Kraków, Poland, 16-18 October 2018, pp. 312-317.
- [C#96] A. Amanatiadis, V. Kaburlasos, E. Kosmatopoulos, “Interpolation kernels in fully convolutional networks and their effect in robot vision tasks”, *Proceedings of the 2018 IEEE International Workshop on Imaging Systems & Techniques (IST 2018)*, Kraków, Poland, 16-18 October 2018, pp. 232-236.
- [C#97] C. Lytridis, C. Bazinas, G. A. Papakostas, V. Kaburlasos, “On measuring engagement level during child-robot interaction in education”, *Proceedings of the 10th International Conference on Robotics in Education (RiE)*, Vienna, Austria, 10-12 April 2019. In: *Robotics in Education -- Current Research and Innovations*, M. Merdan, W. Lepuschitz, G. Koppensteiner, R. Balogh, D. Obdržálek (eds.). pp. 3-13, 2019. Heidelberg, Germany: Springer Nature Switzerland AG 2020, series: *Advances in Intelligent Systems and Computing (AISC)*, vol. 1023, ISBN: 978-3-030-26945-6
- [C#98] V. Kaburlasos, E. Vrochidou, F. Panagiotopoulos, Ch. Aitsidis, A. Jaki, “Time series classification in cyber-physical system applications by intervals’ numbers techniques”, *Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2019)*, New Orleans, Louisiana, USA, 23-26 June 2019.
- [C#99] C. Lytridis, E. Vrochidou, G. Sidiropoulos, G. A. Papakostas, V. G. Kaburlasos, E. Kourampa, E. Karageorgiou, “Audio signal recognition based on Intervals’ Numbers (INs) classification techniques”,

Proceedings of the 10th International Conference on Information, Intelligence, Systems and Applications (IISA 2019), Patras, Greece, 15-17 July 2019.

- [C#100] C. Lytridis, V. Vassileva-Aleksandrova, M. Youssfi, C. Bazinas, V. Ferelis, A. Jaki, M. Mestari, V. G. Kaburlasos, “Social robots as cyber-physical actors in entertainment and education”, *Proceedings of the 27th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2019), Symposium on: Robotic and ICT Assisted Wellbeing*, Split, Croatia, 19-21 September 2019.
- [C#101] A. Jaafar, Y. Illoussamen, E. Vrochidou, T. Pachidis, V. G. Kaburlasos, M. Mestari, “Multi-agent parallel implementation to solve nonlinear equality constrained multiobjective optimization problem – Case of unmanned aerial vehicle (UAV)”, *Proceedings of the 3rd International Conference on Intelligent Computing in Data Sciences (ICDS 2019)*, Marrakech, Morocco, 28-30 October 2019.
- [C#102] V. Holeva, V.-A. Nikopoulou, M. Papadopoulou, E. Vrochidou, G. A. Papakostas, V. G. Kaburlasos, “Toward robot-assisted psychosocial intervention for children with autism spectrum disorder (ASD)”, *Proceedings of the 11th International Conference on Social Robotics (ICSR 2019)*, Madrid, Spain, 26-29 November 2019. In: M. A. Salichs, S. S. Ge, E. Barakova, J.-J. Cabibihan, A. R. Wagner, Á. Castro-González, H. He (Eds.): *ICSR 2019*. Springer Nature Switzerland AG 2019, series: *Lecture Notes in Artificial Intelligence (LNAI)*, vol. 11876, pp. 484-493, 2019. <https://doi.org/10.1007/978-3-030-35888-4>
- [C#103] M. Papadopoulou, V. Holeva, V.-A. Nikopoulou, P. Kechayas, G. A. Papakostas, C. Bazinas, C. I. Papadopoulou, V. Kaburlasos, A. Evangeliou, “Presentation of the project 'SRTSE': Social Robots as Tools in Special Education”, *Panhellenic Pediatric-Neurological Conference*, Plastira Lake, Karditsa, 7-8 March 2020. *Book of Abstracts*, p. 14.
- [C#104] T. Kalampokas, K. Tziridis, A. Nikolaou, E. Vrochidou, G. A. Papakostas, T. Pachidis, V. G. Kaburlasos. “Semantic segmentation of vineyard images using convolutional neural networks”, *21st International Conference on Engineering Applications of Neural Networks (EANN 2020)*, Porto Carras Grand Resort, Halkidiki, Greece, 5-7 June, 2020. In: L. Iliadis, P. P. Angelov, C. Jayne, E. Pimenidis (Eds.): *EANN 2020*. Heidelberg, Germany: Springer Nature Switzerland AG 2020, series: *Proceedings of the International Neural Networks Society (INNS)*, series editors: P. Angelov, R. Kozma, vol. 2, pp. 292-303, 2020. https://doi.org/10.1007/978-3-030-48791-1_22
- [C#105] M. Youssfi, O. Bouattane, V. Kaburlasos, G. Papakostas, “Generic distributed polymorphic learning model for a community of heterogeneous cyber physical social robots in MAS environment and GPU architecture”, *4th International Conference on Intelligent Systems and Computer Vision (ISCV 2020)*, Fez, Morocco, 9-11 June 2020.
- [C#106] F. Ezzahra Ezzrhari, H. Bensag, M. Youssfi, O. Bouattane, V. Kaburlasos, “Scalable multi agent system middleware for HPC of big data applications”, *4th International Conference on Intelligent Systems and Computer Vision (ISCV 2020)*, Fez, Morocco, 9-11 June 2020.
- [C#107] V.G. Kaburlasos, invited speaker, “The Lattice Computing (LC) Paradigm”. In: Francisco J. Valverde-Albacete, Martin Trnecka (Eds.), *Proceedings of the 15th International Conference on Concept Lattices and their Applications (CLA 2020)*, Tallinn, Estonia, 29 June - 1 July 2020, pp. 1-8. Tallinn University of Technology, Estonia, ISBN: 978-9949-83-557-7.
- [C#108] V.G. Kaburlasos, V. Holeva, M. Papadopoulou, C. Dardani, P. Kechayas, C. Lytridis, C. Bazinas, V. A. Nikopoulou, “A feasibility study to evaluate the application of a robot-assisted ASD intervention in Greece”, *Proceedings of the International Society for Autism Research (INSAR) 2020 Annual Meeting, May 6-9 (scheduled), Seattle, Washington, USA*, poster 448.001 uploaded June 3, 2020.
- [C#109] C. Dardani, V.G. Kaburlasos, A. Amanatiadis, “Enhancing the applications of interactive social robots in educational interventions for autism spectrum disorders: a research initiative in Greece”, *Proceedings of the International Society for Autism Research (INSAR) 2020 Annual Meeting, May 6-9 (scheduled), Seattle, Washington, USA*, poster 448.012 uploaded June 3, 2020.
- [C#110] V. G. Kaburlasos, E. Vrochidou, C. Lytridis, G. A. Papakostas, T. Pachidis, M. Manios, S. Mamalis, T. Merou, S. Koundouras, S. Theocharis, G. Siavalas, C. Sgouros, P. Kyriakidis, “Toward big data manipulation for grape harvest time prediction by intervals' numbers techniques”, *World Congress on Computational Intelligence (WCCI) 2020, FUZZ-IEEE Program*, Glasgow, UK, 19-24 July 2020.
- [C#111] E. Badeka, E. Vrochidou, K. Tziridis, A. Nicolaou, G. A. Papakostas, T. Pachidis, V.G. Kaburlasos, “Navigation route mapping for harvesting robots in vineyards using UAV-based remote sensing”, *Proceedings of the 10th IEEE International Conference on Intelligent Systems (IS'20)*, Varna, Bulgaria, 28-30 August 2020, pp. 171-177.
- [C#112] T. Pachidis, C. Sgouros, V. G. Kaburlasos, E. Vrochidou, T. Kalampokas, K. Tziridis, A. Nikolaou, G. A. Papakostas, “Forward kinematic analysis of JACO2 robotic arm towards implementing a grapes harvesting robot”, *28th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2020)*, Hvar, Croatia, 17-19 September 2020.

- [C#113] C. Lytridis, C. I. Papadopoulou, G. A. Papakostas, V. G. Kaburlasos, V.-A. Nikopoulou, M. D. Kerasidou, N. Dalivigkas, “Robot-assisted Autism Spectrum Disorder (ASD) interventions: a multi-robot approach”, *28th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2020)*, Hvar, Croatia, 17-19 September 2020.
- [C#114] V. G. Kaburlasos, C. Lytridis, C. Bazinas, S. Chatzistamatis, K. Sotiropoulou, A. Najoua, M. Youssfi, O. Bouattane, “Head pose estimation using lattice computing techniques”, *28th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2020)*, Hvar, Croatia, 17-19 September 2020.
- [C#115] E. Vrochidou, T. Pachidis, M. Manios, G. A. Papakostas, V. G. Kaburlasos, S. Theocharis, S. Koundouras, K. Karabatea, E. Bouloumpasi, S. Pavlidis, S. Mamalis, T. Merou, “Identifying the technological needs for developing a grapes harvesting robot: operations and systems”, *9th International Conference on Information and Communication Technologies in Agriculture, Food & Environment (HAICTA 2020)*. Thessaloniki, Greece, 24-27 September 2020, pp. 105-113. <http://ceur-ws.org/Vol-2761/> (Open Access)
- [C#116] G. K. Sidiropoulos, C. Bazinas, C. Lytridis, G. A. Papakostas, V. G. Kaburlasos, P. Kechayas, E. Kourampa, S.-R. Katsi, H. Karatsioras, “Synergy of intelligent algorithms for efficient child-robot interaction in special education: a feasibility study”, *11th International Conference on Robotics in Education (RiE)*, Bratislava, Slovakia, 30 September - 2 October 2020.
- [C#117] R. Efstratiou, H. Karatsioras, M. Papadopoulou, C. Papadopoulou, C. Lytridis, C. Bazinas, G. A. Papakostas, V. G. Kaburlasos, “Teaching daily life skills in Autism Spectrum Disorder (ASD) interventions using the social robot Pepper”, *11th International Conference on Robotics in Education (RiE)*, Bratislava, Slovakia, 30 September - 2 October 2020.
- [C#118] E. Bouloumpasi, S. Theocharis, A. Karampatea, S. Pavlidis, S. Mamalis, S. Koundouras, T. Merou, E. Vrochidou, T. Pachidis, M. Manios, G. Papakostas, V. Kaburlasos, “Exploration of viticultural tasks to be performed by autonomous robot: possibilities and limitations”, *Proceedings of the 11th International Scientific Agriculture Symposium (AGROSYM 2020)*, Jahorina, Bosnia and Herzegovina, 8-11 October 2020, pp.56-61.
- [C#119] E. Badeka, E. Vrochidou, G. A. Papakostas, T. Pachidis, V. G. Kaburlasos, “Harvest crate detection for grapes harvesting robot based on YOLOv3 model”, *The Fourth International Conference on Intelligent Computing in Data Sciences (ICDS 2020)*, Fez, Morocco, 21-23 October 2020.
- [C#120] V. G. Kaburlasos, C. Lytridis, C. Bazinas, G. A. Papakostas, A. Naji, M. Hicham Zaggar, K. Mansouri, M. Qbadou, M. Mestari, “Structured human-head pose representation for estimation using fuzzy lattice reasoning (FLR)”, *The Fourth International Conference on Intelligent Computing in Data Sciences (ICDS 2020)*, Fez, Morocco, 21-23 October 2020.
- [C#121] A. Fentis, C. Lytridis, V. G. Kaburlasos, E. Vrochidou, T. Pachidis, E. Bahatti, M. Mestari, “A machine learning based approach for next-day photovoltaic power forecasting”, *The Fourth International Conference on Intelligent Computing in Data Sciences (ICDS 2020)*, Fez, Morocco, 21-23 October 2020.
- [C#122] G. K. Sidiropoulos, G. A. Papakostas, C. Lytridis, C. Bazinas, V. G. Kaburlasos, E. Kourampa, E. Karageorgiou, “Measuring engagement level in child-robot interaction using machine learning based data analysis”, *IEEE International Conference on Data Analytics for Business and Industry (ICDABI 2020)*, 26-27 October 2020, Bahrain.
- [C#123] E. Badeka, T. Kalampokas, E. Vrochidou, K. Tziridis, G. A. Papakostas, T. Pachidis, V. G. Kaburlasos, “Real-time vineyard trunk detection for a grapes harvesting robot via deep learning”, *13th International Conference on Machine Vision (ICMV 2020)*, Rome, Italy, 2-6 November 2020.
- [C#124] K. Tziridis, A. Nikolaou, T. Kalampokas, E. Vrochidou, T. Pachidis, G. A. Papakostas, V. G. Kaburlasos, “Information management and monitoring system for a grapes harvesting robot”, *International Scientific Conference of Communications, Information, Electronic and Energy Systems (CIEES 2020)*, Borovets, Bulgaria, 26-29 November 2020.
- [C#125] A. Lekova, T. Tanev, S. Kostova, V. Kaburlasos, “Lightweight framework for interconnecting virtual and real things via Node-RED”, *Industry 4.0 (I4) V International Scientific Conference - Winter Session (I4 2020)*, Borovets, Bulgaria, 9-12 December 2020.
A. Lekova, T. Tanev, S. Kostova, V. Kaburlasos, “Lightweight framework for interconnecting virtual and real things via Node-RED”, *International Scientific Journal “Industry 4.0”* (an Open Access journal, <https://stumejournals.com/i4.htm>), vol. 5, iss. 5, pp. 202-205, 2020.
- [C#126] E. Karageorgiou, E. Kourampa, A.-T. Papanikolaou, P. Kechayas, E. Avramidou, R.-A. Sabri, C. Lytridis, G. A. Papakostas, V. G. Kaburlasos, “Development of educational scenarios for child-robot interaction: The case of learning disabilities”, *12th International Conference on Robotics in Education (RiE)*, Bratislava, Slovakia, 28 - 30 April 2021.

- [C#127] V. Holeva, P. Kechayas, V.A. Nikopoulou, M. Kerasidou, M. Papadopoulou, A.C. Bazinas, C. Lytridis, V.G. Kaburlasos, A. Evangeliou, “The effects of a robot-assisted intervention for children with autism spectrum disorder on affect recognition and theory of mind”, *Proceedings of the International Society for Autism Research (INSAR) 2021 Annual Meeting, May 5-8, Boston, MA, USA*, poster ID – 37057.
- [C#128] E. Vrochidou, C. Bazinas, G. A. Papakostas, T. Pachidis, V. G. Kaburlasos, “A review of the state-of-art, limitations and perspectives of machine vision for grape ripening estimation”, *13th EFITA (European Federation for Information Technology in Agriculture, Food and Environment) International Conference*, 25-26 May 2021. In: *MDPI Engineering Proceedings* **2021**, 9 (1), 2; <https://www.mdpi.com/2673-4591/9/1/2> (Open Access)
- [C#129] C. Bazinas, E. Vrochidou, C. Lytridis, V. G. Kaburlasos, “Time-series of distributions forecasting in agricultural applications: an intervals’ numbers approach”, *7th International Conference on Time Series and Forecasting (ITISE 2021)*, Gran Canaria, Spain, 19-21 July 2021. In: *MDPI Engineering Proceedings* **2021**, 5 (1), 12; <https://www.mdpi.com/2673-4591/5/1/12> (Open Access)
- [C#130] V. Holeva, V. A. Nikopoulou, P. Kechayas, M. D. Kerasidou, M. Papadopoulou, G. A. Papakostas, V. G. Kaburlasos, A. Evangeliou, “Robot-assisted relaxation training for children with autism spectrum disorders”, *Proceedings of the International Conference on Psychology and Behavioral Sciences (ICPBS002 2021)*, Singapore, 9-10 September 2021.
- [C#131] L. C. Karathanasi, C. Bazinas, G. Iordanou, V. G. Kaburlasos, “A study on text classification for applications in special education”, *29th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2021)*, Hvar, Croatia, 23-25 September 2021.
- [C#132] C. Lytridis, V. G. Kaburlasos, C. Bazinas, G. A. Papakostas, C. I. Papadopoulou, V. A. Nikopoulou, “A software toolbox for behavioral analysis in robot-assisted special education”, *29th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2021)*, Hvar, Croatia, 23-25 September 2021.
- [C#133] C. Bazinas, E. Vrochidou, C. Lytridis, V.G. Kaburlasos, “Yield estimation in vineyards using intervals’ numbers techniques”, *25th Panhellenic Conference on Informatics (PCI 2021)*, Volos, Greece, 26-28 November 2021, pp. 454-459. <https://doi.org/10.1145/3503823.3503906> (ACM Digital Library)
- [C#134] M. Papadopoulou, V. Choleva, V. A. Nikopoulou, P. Kechayas, G. A. Papakostas, C. Bazinas, C. I. Papadopoulou, V. Kaburlasos, A. Evangeliou, “Presentation of the project ‘SRTSE’: social robots as tools in special education”, *48th Société Européenne de Neurologie Pédiatrique (SENP)*, Lausanne, Suisse, 17-19 March 2022.
- [C#135] M.T. Papadopoulou, V.A. Nikopoulou, V. Holeva, P. Kechayas, G.A. Papakostas, N. Geronikola, C. Bazinas, C. Lytridis, V. Kaburlasos, A. Evangeliou, “Social robots as tools in special education (the ‘SRTSE’ project): a randomized case-control study on robot-assisted therapy for children with Autism Spectrum Disorder (ASD)”, *14th European Paediatric Neurology Society (EPNS) Congress*, Glasgow, Scotland, UK, 28 April – 2 May 2022, poster PO14-216.
- [C#136] V. Kaburlasos, C. Lytridis, C. Bazinas, F. Panagiotopoulos, E. Vrochidou, G. Papakostas, “Chapter 25. The Lattice Computing Paradigm for Modeling Intelligence in Cyber-Physical Systems”, *Proceedings of the Basque Conference on Cyber-Physical Systems and Artificial Intelligence*, San Sebastian, Spain, 18-19 May 2022, pp. 213-229. DOI 10.5281/zenodo.6562355.
- [C#137] V. G. Kaburlasos, C. Bazinas, E. Vrochidou, E. Karapatzak, “Agricultural yield prediction by difference equations on data-induced cumulative possibility distributions”, *2022 North American Fuzzy Information Processing Society (NAFIPS 2022) Conference*, Halifax, Nova Scotia, Canada, 31 May - 3 June 2022.
- [C#138] P. Delias, L. Moussiades, V. G. Kaburlasos, “Potentials for decision support in business processes through a multi-layer network embeddings approach”, *32nd EURO Conference*, Espoo, Finland, 3-6 July 2022, p. 191.
- [C#139] V. G. Kaburlasos, “Robot intelligence technology for skillful viniculture based on the lattice computing paradigm”, *International Meet & Expo on Robot Intelligence Technology and Applications (ROBOTMEET2022)*, Edinburgh, Scotland, 18-20 August 2022.
- [C#140] V. G. Kaburlasos, C. Lytridis, G. Siavalas, T. Pachidis, S. Theocharis, “Fuzzy lattice reasoning (FLR) for decision-making on an ontology of constraints toward agricultural robot harvest”, *15th International FLINS (Fuzzy Logic and Intelligent Technologies in Nuclear Science) Conference (FLINS 2022) on Machine learning, Multi agent and Cyber physical systems*, Tianjin, China, 26-28 August 2022. (Best Paper Award)
- [C#140] C. Chariskou, C. Bazinas, A. J. Daniels, U. L. Opara, H. H. Nieuwoudt, V. G. Kaburlasos, “Variable selection for the prediction of TSS, pH and TA of intact berries of Thompson seedless grapes from their NIS reflection”, *30th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2022)*, Split, Croatia, 22-24 September 2022.

- [C#142] E. Vrochidou, C. Bazinas, E. Mavridou, T. Pachidis, S. Mamalis, S. Koundouras, T. Gkrimpizis, V. G. Kaburlasos, “Considerations for a multi-purpose agrobot design toward automating skillful viticultural tasks: a study in northern Greece vineyards”, *10th International Conference on Information and Communication Technologies in Agriculture, Food & Environment (HAICTA 2022)*. Athens, Greece, 22-25 September 2022.

Scientific Theses (ST)

- [ST#1] V.G. Kaburlasos, “A simulation software model for an integrated services digital network (ISDN). Possible applications” (in Greek), a hand-written 199 pages *National Technical University of Athens, Greece “Diploma Thesis”*, October 1986.
- [ST#2] V.G. Kaburlasos, “Neurocomputing Classification of Biomedical Image Patterns”, a 78 pages *University of Nevada Reno “Master Thesis”*, November 1989, University Microfilms Inc., US Library of Congress-Copyright Office.
- [ST#3] V.G. Kaburlasos, “Adaptive Resonance Theory with Supervised Learning and Large Database Applications”, a 227 pages *University of Nevada Reno Ph.D. “Dissertation”*, April 1992, University Microfilms Inc., US Library of Congress-Copyright Office.

Technical Reports (TR)

- [TR#1] V.G. Kaburlasos, “Comparative evaluation of three telephone routing algorithms with losses” (in Greek), *National Technical University of Athens, Greece*, Spring 1987.

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(4 October 2022)

Scopus

Documents by Kaburlasos: 137
Total citations: 2089 (in 1186 documents)
h-index: 23

Google Scholar

Documents by Kaburlasos: 223
Total citations: 3433
h-index: 30
i10-index: 75