Dr CHRIS LYTRIDIS
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PERSONAL INFORMATION

Marital status: Single
Nationality: Greek
Date of Birth: 09/08/1978
Place of Birth: Thessaloniki, Greece

EDUCATION

University of Portsmouth
Department of Electrical & Electronic Engineering
BEng (Hons) in Electronic and Computer Engineering   *July 1999*
2.1 Degree Classification
Final Year Project: *"Generation of three dimensional graphics superimposed on video capture"*
Creation of a graphical user interface in Visual C++, where basic solid shapes are combined to produce three dimensional models of moving ships, which are superimposed on video feed of port activity.

University of Portsmouth
Department of Electrical & Electronic Engineering
MSc in Mobile Robotics   *September 2000*
Project: *"Optimisation of a fuzzy rule based controller using genetic algorithms"*
Investigation of the use of fuzzy logic as a way to establish the intelligent behaviour of a set of mobile robots while optimizing their performance using a genetic algorithm in a simulation of robot-following behaviour written in Visual C++.

University of Portsmouth
Department of Electronic & Computer Engineering
PhD in Mobile Robotics   *November 2004*
Thesis title: *"Co-operative robotic search strategies for odour source localisation"*
Development of efficient and robust cooperation strategies for the control of multi-robot teams to demonstrate the advantages of multi-robot systems in carrying out cooperative searching tasks through simulation studies as well as using mobile robotic platforms to validate the theoretical results.

WORK EXPERIENCE

University of Portsmouth   *February 2001 - June 2004*

Internet Applications Laboratory Supervision (First and Second Year Units)

- Introduction to Microsoft Office applications (Excel, Access, Powerpoint)
- Web Design: Principles, HTML, hyperlinks, tables, forms, frames, images and graphics. Cascading-style sheets. Use of the web page design software

Dreamweaver.
- CGI scripting using the PERL programming language
- Server-side scripting using PHP
- Introduction to relational databases, design principles and database-driven websites using PHP/MySQL

University of Portsmouth   *October 2001 - June 2004*

C Programming Laboratory Supervision (First Year Units)

- Introduction to the UNIX operating system
- Introduction to C programming
- Advanced C programming

University of Portsmouth   *February 2002 - June 2002*

Lecturer of the Robotic Navigation postgraduate level course
MSc in Robotics, Department of Electronic and Computer Engineering.

- Fundamentals of robotic navigation
- Fundamental principles of robotic locomotion.
- Sensor technologies
- Biologically inspired navigation

University of Portsmouth   *September 2004 - November 2004*

Development of a computer-based system for the control of multiple smelling robots for demonstration purposes.

Technological Educational Institute of Kavala   *September 2005 - February 2006*

Software Engineering Laboratory Supervision
Department of Industrial Informatics
Division of Computing Systems
- Software design
- Object-oriented analysis and design
- Formal specification
- CASE tools

Technological Educational Institute of Kavala   *October 2007 - Today*

Artificial intelligence Laboratory Supervision
Department of Industrial Informatics
Division of Computing Systems
- Artificial intelligence
- Logic programming
- Prolog programming language

Technological Educational Institute of Kavala   *February 2008 – June 2008*

External collaborator. Digitization and publishing on a moodle platform of the following courses:

- Robotics
- Artificial intelligence

Technological Educational Institute of Kavala   *October 2008 – September 2010*

Scientific collaborator, Department of Industrial Informatics

- Computer graphics

Technological Educational Institute of Kavala   *October 2009 – July 2011*

Scientific collaborator, Department of Information Management

- Structured programming
- Introduction to informatics
- Object oriented programming

Technological Educational Institute of Kavala   *October 2012 – February 2013*

Scientific collaborator, Department of Industrial Informatics

- Robotics

Eastern Macedonia and Thrace Institute of Technology   *February 2016 – June 2018*

Scientific collaborator, Department of Industrial Informatics

- Educational Technologies
- Programming Techniques

Eastern Macedonia and Thrace Institute of Technology   *Sept. 2014 – November 2015*

External collaborator. Project: «Open academic courses at the Eastern Macedonia and Thrace Institute of Technology»

- Digitisation of courses in the Moodle platform
- Development of software for the conversion of academic digital courses between platforms.

Eastern Macedonia and Thrace Institute of Technology   *July 2015 – November 2015*

External collaborator. Project: «Lifelong learning programmes for graduates - "Mobile applications development" seminar»

- Coordination and support for the programme
- Preparation and development of learning material
- Distance learning teaching in the Moodle platform and in person teaching in laboratory sessions.

Eastern Macedonia and Thrace Institute of Technology   *February 2016 – June 2018*

Scientific collaborator, Department of Informatics and Computer Engineering

- Programming in C
- Educational Technologies

Eastern Macedonia and Thrace Institute of Technology   *February 2016 - June 2017*

External collaborator, Department of Informatics and Computer Engineering
Msc in Advanced Technologies in Informatics and Computers

- Web Programming
- Applications Development

Eastern Macedonia and Thrace Institute of Technology   *February 2016 – May 2016*

External collaborator, Department of Forestry and Natural Environment Management
MSc in Analysis and Management of Manmade and Natural Disasters

- Lecture videos editing and cataloguing

International Hellenic University   *February 2018 – June 2020*

Scientific collaborator, Department of Computer Science

- Algorithms and Data structures

International Hellenic University   *October 2021 – Today*
Scientific collaborator, Department of Computer Science
MPhil in Advanced Technologies in Informatics and Computers
- Advanced Robotics

International Hellenic University *June 2019 – June 2022*

Researcher
Project: Cyber Physical Systems for PEdagogical Rehabilitation in Special Education (CybSPEED)
Horizon 2020, H2020-MSCA-RISE-2017 (Marie Skłodowska-Curie Research and Innovation Staff Exchange)

- Training and collaboration secondments
- Software development for social robots as theatrical actors

International Hellenic University *December 2018 – June 2022*

Researcher
Project: Social robots as tools in special education (SRTSE)
- Establishment of teacher education framework for children
- Description and analysis of human interaction models with robots
- Determination of children's interactions with robots
- Demonstration model simulation software
- Robot control software
- Software customisation for robots

International Hellenic University *July 2021 – Today*

Researcher
Project: Technology for Skillful Viniculture (SVtech)
- Definition of operational hardware and software requirements
- Designing of communications between robots
- Software development for navigation and communications

International Hellenic University *October 2022 – February 2023*

Scientific collaborator, Department of Computer Science
- Introduction to Programming in C/C++

International Hellenic University *February 2023 – June 2023*

Scientific collaborator, Department of Computer Science
- Logic and Logic Programming

P U B L I C A T I O N S

[1] Virk, Gurvinder S., Chris Lytridis, Endre E. Kadar, and Paul Fisher. 2001. "Cooperative Target Searching in a Diffusion Field." In *2001 European Control Conference (ECC)*, 567–71. IEEE. https://doi.org/10.23919/ECC.2001.7075968.

[2] Virk, Gurvinder S., Chris Lytridis, Endre E. Kadar, and P. Fisher. 2001. "Cooperative Navigation in Unstable Diffusion Fields." In *Proceedings of the Fourth International Conference on Climbing and Walking Robots (CLAWAR20001)*, edited by Karsten Berns, 471–79. Karlsruhe, Germany: Professional Engineering Publishing , Bury St Edmunds.

[3] Lytridis, Chris, Gurvinder S. Virk, Endre E. Kadar, and Paul Fisher. 2002. "Gas Sensors for Mobile Robot Navigation." In *Proceedings of the 5th International Conference on Climbing and Walking Robots (CLAWAR 2002)*, 233–39. Paris, France.

[4] Lytridis, Christodoulos, Gurvinder S. Virk, Yann Rebour, and Endre E. Kadar. 2001. "Odor-Based Navigational Strategies for Mobile Agents." *Adaptive Behavior* 9 (3–4): 171–87. https://doi.org/10.1177/10597123010093004.

[5] Lytridis, Chris, Gurvinder S. Virk, Endre E. Kadar, and Paul Fisher. 2003. "Odour Source Localization Using Co-Operating Mobile Robots." In *Proceedings of the 6th International Conference on Climbing and Walking Robots (CLAWAR 2003)*, 967–74. Catania, Italy. https://doi.org/10.1007/3-540-29461-9_109.

[6] Lytridis, Chris, Gurvinder S. Virk, and Endre E. Kadar. 2005. "Co-Operative Smell-Based Navigation for Mobile Robots." In *Climbing and Walking Robots: Proceedings of the 7th International Conference CLAWAR 2004*, 1107–17. Madrid, Spain: Springer, Berlin, Heidelberg. https://doi.org/10.1007/3-540-29461-9_109.

[7] Lytridis, Chris, Gurvinder S. Virk, and Endre E. Kadar. 2006. "Search Performance of a Multi-Robot Team in Odour Source Localisation." In *Proceedings of the 8th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines, CLAWAR 2005*, 809–16. London, UK: Springer, Berlin, Heidelberg. https://doi.org/https://doi.org/10.1007/3-540-26415-9_97.

[8] Lytridis, C., Kadar, E. E., & Virk, G. S. (2006). A systematic approach to the problem of odour source localisation. *Autonomous Robots*, *20*(3), 261–276. https://doi.org/10.1007/s10514-006-7414-3

[9] Lytridis, Chris, Gurvinder S. Virk, and Endre E. Kadar. 2006. "Search Performance of a Multi-Robot Team in Odour Source Localisation." In *Proceedings of the 8th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines, CLAWAR 2005*, 809–16. London, UK: Springer, Berlin, Heidelberg. https://doi.org/https://doi.org/10.1007/3-540-26415-9_97.

[10] Lytridis, Chris, and Avgoustos Tsinakos. 2014. "Using a Commercial Mobile Application as a Mobile Learning Platform." In *Mobile as a Mainstream – Towards Future Challenges in Mobile Learning. MLearn 2014*, 29–37. Instanbul, Turkey: Springer, Cham. https://doi.org/10.1007/978-3-319-13416-1_3.

[11] Kazanidis, Ioannis, Chris Lytridis, and Avgoustos Tsinakos. 2015. "Two Fold Evaluation of Academic Open Courses in STEM Education: The Case of TEI EMT." In *2015 International Conference on Interactive Collaborative Learning (ICL)*, 1222–26. IEEE. https://doi.org/10.1109/ICL.2015.7318213.

[12] Lytridis, Chris, and Avgoustos Tsinakos. 2016. "Blended Learning in a Continuing Education Short Course at EMATTECH." In *Proceedings of the 1st International Association for Blended Learning Conference (IABL 2016)*, edited by Agnieszka Palalas, Helmi Norman, and Przemyslaw Pawluk, 117–20. Kavala, Greece.

[13] Mpakali, Ioanna, Chris Lytridis, and Dimitrios Pogaridis. 2016. "Dissemination of Educational Robotics in the Schools of the Eastern Macedonia and Thrace Region of Greece." In *Proceedings of the 1st International Association for Blended*

Learning Conference (IABL 2016), edited by Agnieszka Palalas, Helmi Norman, and Przemyslaw Pawluk, 147–51. Kavala, Greece.

[14] Lytridis, Chris, Ioannis Kazanidis, and Avgoustos Tsinakos. 2016. "The Open Courses Project at the Eastern Macedonia and Thrace Institute of Technology." In *State-of-the-Art and Future Directions of Smart Learning*, edited by Yanyan Li, Maiga Chang, Milos Kravcik, Elvira Popescu, Ronghuai Huang, Kinshuk, and Nian-Shing Chen, 415–21. https://doi.org/10.1007/978-981-287-868-7_50.

[15] Lytridis, Chris, and Avgoustos Tsinakos. 2017. "MLearn: A Mobile Learning Platform." *Journal of Engineering, Science and Technology Review* 10 (4): 81–86. https://doi.org/10.25103/jestr.104.11.

[16] Kazanidis, Ioannis, G. Sotiriadis, Chris Lytridis, and Avgoustos Tsinakos. 2018. "Using Augmented Reality Application for Children Education in Natural Disasters." In *Novel Approaches in Risk, Crisis and Disaster Management*, edited by Michail Chalaris, Dimitrios Emmanouloudis, Jet-Chau Wen, and Zong-Ping Wu, 337–54. Nova.

[17] Kazanidis, Ioannis, Avgoustos Tsinakos, and Chris Lytridis. 2018. "Teaching Mobile Programming Using Augmented Reality and Collaborative Game Based Learning." In *Interactive Mobile Communication Technologies and Learning (IMCL 2017)*, edited by Michael E Auer and Thrasyvoulos Tsiatsos, 725:850–59. Cham: Springer International Publishing. https://doi.org/https://doi.org/10.1007/978-3-319-75175-7_83.

[18] Lytridis, Chris, Avgoustos Tsinakos, and Ioannis Kazanidis. 2018. "ARTutor—An Augmented Reality Platform for Interactive Distance Learning." *Education Sciences* 8 (1): 6. https://doi.org/10.3390/educsci8010006.

[19] Lytridis, Chris, Eleni Vrochidou, and Vassilis George Kaburlasos. 2018. "Emotional Speech Recognition toward Modulating the Behavior of a Social Robot." *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)* 2018: 1A1-B14. https://doi.org/10.1299/jsmermd.2018.1A1-B14.

[20] Lytridis, Chris, Eleni Vrochidou, Stamatis Chatzistamatis, and Vassilis Kaburlasos. 2019. "Social Engagement Interaction Games Between Children with Autism and Humanoid Robot NAO." In *International Joint Conference SOCO'18-CISIS'18-ICEUTE'18*, edited by Manuel Graña, José Manuel López-Guede, Oier Etxaniz, Álvaro Herrero, José Antonio Sáez, Héctor Quintián, and Emilio Corchado, 562–70. San Sebastián, Spain: Springer, Cham. https://doi.org/10.1007/978-3-319-94120-2_55.

[21] Vrochidou, Eleni, Aouatif Najoua, Chris Lytridis, Michail Salonidis, Vassilios Ferelis, and George A. Papakostas. 2018. "Social Robot NAO as a Self-Regulating Didactic Mediator: A Case Study of Teaching/Learning Numeracy." In *26th International Conference on Software, Telecommunications and Computer Networks (SoftCOM2018)*, 1–5. Split, Croatia: IEEE. https://doi.org/10.23919/SOFTCOM.2018.8555764.

[22] Lytridis, Chris, and Avgoustos Tsinakos. 2018. "Evaluation of the ARTutor Augmented Reality Educational Platform in Tertiary Education." *Smart Learning Environments* 5 (1): 6. https://doi.org/10.1186/s40561-018-0058-x.

[23] Lytridis, Chris, Christos Bazinas, George A. Papakostas, and Vassilis Kaburlasos. 2020. "On Measuring Engagement Level During Child-Robot Interaction in Education." In *Advances in Intelligent Systems and Computing*, edited by M. Merdan, W. Lepuschitz, G. Koppensteiner, R. Balogh, and D. Obdržálek, 1023:3–

13. Vienna, Austria: Springer, Cham. https://doi.org/10.1007/978-3-030-26945-6_1.

[24] Lytridis, Chris, Eleni Vrochidou, George Sidiropoulos, George A. Papakostas, Vassilis G. Kaburlasos, Efi Kourampa, and Elpida Karageorgiou. 2019. "Audio Signal Recognition Based on Intervals' Numbers (INs) Classification Techniques." In *2019 10th International Conference on Information, Intelligence, Systems and Applications (IISA)*, 1–4. Patras, Greece: IEEE. https://doi.org/10.1109/IISA.2019.8900749.

[25] Lytridis, Chris, Christos Bazinas, Vassilis G. Kaburlasos, Violina Vassileva-Aleksandrova, Mohamed Youssfi, Mohammed Mestari, Vasileios Ferelis, and Alexander Jaki. 2019. "Social Robots as Cyber-Physical Actors in Entertainment and Education." In *2019 International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, 1–6. Split, Croatia: IEEE. https://doi.org/10.23919/SOFTCOM.2019.8903630.

[26] Lytridis, Chris, Anna Lekova, Christos Bazinas, Michail Manios, and Vassilis G Kaburlasos. 2020. "WINkNN: Windowed Intervals' Number KNN Classifier for Efficient Time-Series Applications." *Mathematics* 8 (3): 413. https://doi.org/10.3390/math8030413.

[27] Sidiropoulos, George K, Christos Bazinas, Chris Lytridis, George A Papakostas, Vassilis G Kaburlasos, Petros Kechayas, Efi Kourampa, Sotirianna Rafaela Katsi, and Charalambos Karatsioras. 2021. "Synergy of Intelligent Algorithms for Efficient Child-Robot Interaction in Special Education: A Feasibility Study." In *Robotics in Education. RiE 2020. Advances in Intelligent Systems and Computing*, edited by W. Lepuschitz, M. Merdan, G. Koppensteiner, R. Balogh, and D. Obdržálek, 98–105. Springer, Cham. https://doi.org/10.1007/978-3-030-67411-3_9.

[28] Efstratiou, Rafaela, Charalambos Karatsioras, Maria Papadopoulou, Cristina Papadopoulou, Chris Lytridis, Christos Bazinas, George A Papakostas, and Vassilis G. Kaburlasos. 2021. "Teaching Daily Life Skills in Autism Spectrum Disorder (ASD) Interventions Using the Social Robot Pepper." In *Robotics in Education. RiE 2020. Advances in Intelligent Systems and Computing*, edited by W. Lepuschitz, M. Merdan, G. Koppensteiner, R. Balogh, and D. Obdržálek, 86–97. Springer, Cham. https://doi.org/10.1007/978-3-030-67411-3_8.

[29] Kaburlasos, V.G., Holeva, V., Papadopoulou, M., Dardani, C., Kechayas, P., Lytridis, C., Bazinas, C., Nikopoulou, V.A., "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, Seattle, Washington, USA.

[30] Kaburlasos, V. G., E. Vrochidou, C. Lytridis, G. A. Papakostas, T. Pachidis, M. Manios, S. Mamalis, T. Merou, S. Koundouras, S. Theocharis, G. Siavalas, C. Sgouros, and P. Kyriakidis. 2020. "Toward Big Data Manipulation for Grape Harvest Time Prediction by Intervals' Numbers Techniques." In *2020 International Joint Conference on Neural Networks (IJCNN)*. 1–6, Glasgow, United Kingdom: IEEE. https://doi.org/10.0.4.85/IJCNN48605.2020.9206965

[31] Kaburlasos, Vassilis G., Chris Lytridis, Christos Bazinas, George A. Papakostas, Abdelwahab Naji, Mohammed Hicham Zaggaf, Khalifa Mansouri, Mohammed Qbadou, and Mohammed Mestari. 2020. "Structured Human-Head Pose Representation for Estimation Using Fuzzy Lattice Reasoning (FLR)." Pp. 1–5 in *2020 Fourth International Conference On Intelligent Computing in Data Sciences (ICDS)*. Fez, Morocco: IEEE. https://doi.org/10.1109/ICDS50568.2020.9268760

[32] Fentis, Ayoub, Chris Lytridis, Vassilis G. Kaburlasos, Eleni Vrochidou, Theodore Pachidis, Elhoussine Bahatti, and Mohamed Mestari. 2020. "A Machine Learning

Based Approach for Next-Day Photovoltaic Power Forecasting." Pp. 1–8 in *2020 Fourth International Conference On Intelligent Computing in Data Sciences (ICDS)*. Fez, Morocco: IEEE. https://doi.org/10.1109/ICDS50568.2020.9268755

[33] Lytridis, Chris, Christos Bazinas, George Sidiropoulos, George A Papakostas, Vassilis G. Kaburlasos, Vasiliki-Aliki Nikopoulou, Vasiliki Holeva, and Athanasios Evangeliou. 2020. "Distance Special Education Delivery by Social Robots." *Electronics* 9 (6): 1034. https://doi.org/10.3390/electronics9061034.

[34] Lytridis, Chris, Cristina I. Papadopoulou, George A. Papakostas, Vassilis G Kaburlasos, Vasiliki Aliki Nikopoulou, Maria Dialechti Kerasidou, and Nikolaos Dalivigkas. 2020. "Robot-Assisted Autism Spectrum Disorder (ASD) Interventions: A Multi-Robot Approach." In *2020 International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, 1–4. Hvar, Croatia: IEEE. https://doi.org/10.23919/SoftCOM50211.2020.9238273

[35] Kaburlasos, Vassilis G, Chris Lytridis, Christos Bazinas, Stamatis Chatzistamatis, Kalliopi Sotiropoulou, Aouatif Najoua, Mohamed Youssfi, and Omar Bouattane. 2020. "Head Pose Estimation Using Lattice Computing Techniques." In *2020 International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, 1–5. Hvar, Croatia: IEEE. https://doi.org/10.23919/SoftCOM50211.2020.9238315

[36] Sidiropoulos, George K, George A Papakostas, Chris Lytridis, Christos Bazinas, Vassilis G Kaburlasos, Efi Kourampa, and Elpida Karageorgiou. 2020. "Measuring Engagement Level in Child-Robot Interaction Using Machine Learning Based Data Analysis." In *2020 International Conference on Data Analytics for Business and Industry: Way Towards a Sustainable Economy (ICDABI)*, 1–5. Bahrain: IEEE. https://doi.org/10.1109/ICDABI51230.2020.9325676.

[37] Karageorgiou, Elpida, Efrosyni Kourampa, Athanasia-tania Papanikolaou, Petros Kechayas, Eleftheria Avramidou, Rafailia-Androniki Sabri, Chris Lytridis, George A. Papakostas, and Vassilis George Kaburlasos. 2022. "Development of Educational Scenarios for Child-Robot Interaction : The Case of Learning Disabilities." In *Robotics in Education. RiE 2021. Advances in Intelligent Systems and Computing*, 1–8. https://doi.org/10.1007/978-3-030-82544-7_3.

[38] Papakostas, George A, George K Sidiropoulos, Chris Lytridis, Christos Bazinas, Vassilis G. Kaburlasos, Efi Kourampa, Elpida Karageorgiou, Petros Kechayas, and Maria T. Papadopoulou. 2021. "Estimating Children Engagement Interacting with Robots in Special Education Using Machine Learning." Edited by Bhawani Shankar Chowdhry. Mathematical Problems in Engineering 2021 (June): 1–10. https://doi.org/10.1155/2021/9955212.

[39] Vrochidou, Eleni, Chris Lytridis, Christos Bazinas, George A Papakostas, and Hiroaki Wagatsuma. 2021. "Brain Signals Classification Based on Fuzzy Lattice Reasoning." *Mathematics* 9(9) (1063): 1–17. https://doi.org/https://doi.org/10.3390/math9091063

[40] Bazinas, Christos; Vrochidou, Eleni; Lytridis, Chris; Kaburlasos, Vassilis G. 2021. "Time-Series of Distributions Forecasting in Agricultural Applications: An Intervals' Numbers Approach" *Eng. Proc.* 5, no. 1: 12. https://doi.org/10.3390/engproc20210050012

[41] Lytridis, Chris, Vassilis G Kaburlasos, Theodore Pachidis, Michalis Manios, Eleni Vrochidou, Theofanis Kalampokas, and Stamatis Chatzistamatis. 2021. "An Overview of Cooperative Robotics in Agriculture." *Agronomy* 11 (9): 1818. https://doi.org/10.3390/agronomy11091818

[42] Lytridis, Chris, Vassilis George Kaburlasos, Christos Bazinas, George A Papakostas, Christina I Papadopoulou, and Vasiliki Aliki Nikopoulou. 2021. "A Software Toolbox for Behavioral Analysis in Robot-Assisted Special Education." In *2021 International Conference on Software, Telecommunications and Computer*

Networks (SoftCOM), 1–5. Hvar, Croatia: IEEE. https://doi.org/10.23919/SoftCOM52868.2021.9559093

[43] Kaburlasos, Vassilis G, Chris Lytridis, Eleni Vrochidou, Christos Bazinas, George A Papakostas, Anna Lekova, Omar Bouattane, Mohamed Youssfi, and Takashi Hashimoto. 2021. "Granule-Based-Classifier (GbC): A Lattice Computing Scheme Applied on Tree Data Structures." *Mathematics* 9 (22): 2889. https://doi.org/10.3390/math9222889

[44] Lytridis, Chris, Vassilis G. Kaburlasos, Christos Bazinas, George A. Papakostas, George Sidiropoulos, Vasiliki-Aliki Nikopoulou, Vasiliki Holeva, Maria Papadopoulou, and Athanasios Evangeliou. 2022. "Behavioral Data Analysis of Robot-Assisted Autism Spectrum Disorder (ASD) Interventions Based on Lattice Computing Techniques." *Sensors* 22, no. 2: 621. https://doi.org/10.3390/s22020621

[45] Bazinas, Christos, Eleni Vrochidou, Chris Lytridis, and Vassilis G. Kaburlasos. 2021. "Yield Estimation in Vineyards Using Intervals' Numbers Techniques." In *25th Pan-Hellenic Conference on Informatics*, 454–59. New York, NY, USA: ACM. https://doi.org/10.1145/3503823.3503906

[46] Salhi, Intissar, Mohammed Qbadou, Soukaina Gouraguine, Khalifa Mansouri, Chris Lytridis, and Vassilis Kaburlasos. 2022. "Towards Robot-Assisted Therapy for Children With Autism—The Ontological Knowledge Models and Reinforcement Learning-Based Algorithms." *Frontiers in Robotics and AI* 9 (April). https://doi.org/10.3389/frobt.2022.713964

[47] Papadopoulou, Maria T., Elpida Karageorgiou, Petros Kechayas, Nikoleta Geronikola, Chris Lytridis, Christos Bazinas, Efi Kourampa, Eleftheria Avramidou, Vassilis G. Kaburlasos, and Athanasios E. Evangeliou. 2022. "Efficacy of a Robot-Assisted Intervention in Improving Learning Performance of Elementary School Children with Specific Learning Disorders" *Children* 9, no. 8: 1155. https://doi.org/10.3390/children9081155

[48] Kaburlasos, Vassilis G., Chris Lytridis, Christos Bazinas, Fotios Panagiotopoulos, Eleni Vrochidou, and George A. Papakostas. 2022. "The Lattice Computing Paradigm for Modeling Intelligence in Cyber-Physical Systems." In *Basque Conference on Cyber Physical Systems and Artificial Intelligence The*. San Sebastián, Spain.

[49] Kaburlasos, V., Lytridis, C., Siavalas, G., Pachidis, T., & Theocharis, S. (2023). Fuzzy Lattice Reasoning (FLR) for decision-making on an ontology of constraints toward agricultural robot harvest. *Machine Learning, Multi Agent and Cyber Physical Systems*, 80–87. https://doi.org/10.1142/9789811269264_0010 (Best Paper Award)

[50] Tsolaki, M., Kaburlasos, V. G., Lytridis, C., Bazinas, C., & Siavalas, G. (2022). Social Robots for Pedagogical Rehabilitation in Special Education for the Elderly. *The 10th International Conference on Robot Intelligence Technology and Applications*.

[51] Holeva, V., Nikopoulou, V. A., Lytridis, C., Bazinas, C., Kechayas, P., Sidiropoulos, G., Papadopoulou, M., Kerasidou, M. D., Karatsioras, C., Geronikola, N., Papakostas, G. A., Kaburlasos, V. G., & Evangeliou, A. (2022). Effectiveness of a Robot-Assisted Psychological Intervention for Children with Autism Spectrum Disorder. *Journal of Autism and Developmental Disorders*, *0123456789*. https://doi.org/10.1007/s10803-022-05796-5

[52] Lytridis, C., Bazinas, C., Pachidis, T., Chatzis, V., & Kaburlasos, V. G. (2022). Coordinated Navigation of Two Agricultural Robots in a Vineyard: A Simulation Study. *Sensors*, *22*(23), 9095. https://doi.org/10.3390/s22239095

[53] Tziolas, E., Karapatzak, E., Kalathas, I., Lytridis, C., Mamalis, S., Koundouras, S., Pachidis, T., & Kaburlasos, V. G. (2023). Comparative Assessment of Environmental / Energy Performance under Conventional Labor and

Collaborative Robot Scenarios in Greek Viticulture. *Sustainability*, *15*(3). https://doi.org/https://doi.org/10.3390/su15032753

ANDROID APPLICATIONS DEVELOPMENT

- o Application «Thassos-Agenda»
  https://play.google.com/store/apps/details?id=com.thassos_agenda

- o Application «Καθημερινός Τύπος»
  https://play.google.com/store/apps/details?id=com.lytridis.k_typos2

- o Application «Aris Fans - Emperor.gr»
  https://play.google.com/store/apps/details?id=com.lytridis.emperor.gr

- o Application «Φεστιβάλ Βιομηχανικής Πληροφορικής i2fest»
  https://play.google.com/store/apps/details?id=com.lytridis.i2fest

- o Application «Kavala GetApp»
  https://play.google.com/store/apps/details?id=com.lytridis.kavalagetapp

- o Application «Μυροβόλος Άνοιξις»
  https://play.google.com/store/apps/details?id=com.lytridis.myrovolosanoixis

- o Application «Βρες Μάστορα Βρες Τεχνικό – vmvtclub.gr»
  https://play.google.com/store/apps/details?id=com.lytridis.vresmastoravrestexniko

- o Application «Dog Care»
  https://play.google.com/store/apps/details?id=com.lytridis.dogcare

- o Application «ΤΜΠ – Student tools»
  https://play.google.com/store/apps/details?id=com.lytridis.unitimetable

- o Application «ARTutor»
  https://play.google.com/store/apps/details?id=com.aetma.artutor

- o Application «mLearn»
  https://play.google.com/store/apps/details?id=com.aetma.mlearn

- o Application «ΚοιΡο3Ε»
  https://play.google.com/store/apps/details?id=com.ama.koiro3e&hl=el

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IOS APPLICATIONS DEVELOPMENT

- o Application «Μυροβόλος Άνοιξις»

https://itunes.apple.com/us/app/myrobolos-anoixis/id1150810606?mt=8

 o Application «Τμήμα Μηχανικών Πληροφορικής»
  https://itunes.apple.com/us/app/tmema-mechanikon-plerophorikes/id1155515365?mt=8

 o Application «i2fest»
  https://itunes.apple.com/us/app/i2fest/id1289195845?mt=8

OTHER ACTIVITIES

- Design and implementation of the Control & Robotics Research Group website
- Participation in the Climbing Robot competitions at the CLAWAR 2001 (Karlsruhe, Germany) and CLAWAR 2002 (Paris, France) conferences
- Presentation of the BIRAW smelling robots at the 13th International Symposium on Measurement & Control in Robotics (ISMCR'03, Madrid, Spain)
- Attendance in a series of workshops titled "Postgraduates as teachers, tutors and laboratory demonstrators"
- Student representative at the Faculty Research Committee (February 2001 – October 2003)
- Member of the Technical Chamber of Greece
- Member of the International Association for Blended Learning – IABL
- Member of the Advanced Educational Technologies and Mobile Applications Lab
- Member of the organizing committee of the Industrial Informatics Festival (i2fest).
- Design and implementation of the website www.straydogs.gr
- Design and implementation of the website of the Postgraduate Course "Master of Education in Distance Education (M.Ed.)" http://mddegr.emattech.gr/mddegr/
- Design and implementation of the website www.epiplastefanou.gr
- Design and implementation of the Advanced Educational Technologies and Mobile Applications website http://ar.teiemt.gr
- Design and implementation of the Industrial Informatics Festival website http://www.i2fest.gr
- Design and implementation of the Technological Research in Eastern Macedonia and Thrace website http://ctr-emth.teikav.edu.gr/kte/ctr/
- Organisation of a Workshop titled "Blending AR and Mobile Learning" for the 1st International Association for Blended Learning Conference - IABL2016.
- Organisation and teaching in a distance-learning short course titled "Android app development" – AETMA Lab
- Design and implementation of the Inchiku Glow company website http://www.inchikuglow.gr/

LANGUAGES

- Greek
- English
- French