

XANTHI S. PAPAGEORGIU, PhD

Nationality: Hellenic

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University of the Aegean, School of Engineering
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RESEARCH INTERESTS

Motion Tasks, Neuro-Robotics, Force Control, Compliant Control, Adaptive Control, Optimal Control, Neuroscience, Geriatric Rehabilitation, Brain - Computer Interface (BCI), eGovernance, Data Platforms, Traceability, Supply Chain, Food Safety

EDUCATION

2004 - 2009 National Technical University of Athens, Greece
PhD in Mechanical Engineering

Thesis Title: *Motion Tasks for
Neuro-Robotic Systems*

Advisors: Prof. K.J. Kyriakopoulos
Prof. E. Papadopoulos
Prof. N. Krikelis

1998 - 2003 National Technical University of Athens, Greece
Diploma (Master of Science in Engineering)
in Mechanical Engineering (10 semesters study)
Graduated in the top 5% of her class
GPA: 8.18/10.00

Thesis Title: *Air Traffic Management
Using Neuro - Dynamic
Programming*

Advisor: Prof. K.J. Kyriakopoulos

RESEARCH & DEVELOPMENT EXPERIENCE

- 9/2024 - Assistant Professor**
*Department of Product & Systems Design Engineering,
School of Engineering, University of the Aegean,
“Mechatronic Products and Systems Design”*
- 4/2021 - Robotics Tech Leader**
*Head of Robotics and Cognitive Systems Unit
UBITECH - The Ubiquitous Technologies Company*
Research on development of methodologies and algorithms under many HORIZON EUROPE Research and Innovation Projects:
ARISE: Advanced AI and Robotics for autonomous task performance.
XR5.0: Human-Centric AI-Enabled Extended Reality Applications for the Industry 5.0 Era.
MARS: Manufacturing Architecture for Resilience and Sustainability.
AI4Gov: Trusted AI for Transparent Public Governance fostering Democratic Values.
inGOV: Inclusive Governance Models and ICT Tools for Integrated Public Service Co-Creation and Provision.
GLASS: Single Sign-on eGovernance paradigm based on a distributed file exchange network for Security, transparency, cost effectiveness and trust.
BIMERR: BIM-based holistic tools for Energy-driven Renovation of existing Residences.
PUZZLE: Towards a Sophisticated SIEM Marketplace for Blockchain-based Threat Intelligence and Security-as-a-Service.
TheFSM: The Food Safety Market: an SME-powered industrial data platform to boost the competitiveness of European food certification.
Search & Rescue: Emerging technologies for the Early location of Entrapped victims under Collapsed Structures and Advanced Wearables for risk assessment and First Responders Safety in SAR operations.
- 1/2019 - 12/2021 Senior Research Fellow**
Institute of Language and Speech Processing, HUBIC Lab - Human Behaviour, Interaction and Communication, “ATHENA” Research Center
Research on development of methodology and algorithm for Assistive Robotic Systems for Elderly and Impaired Persons under the i-Walk: “Intelligent Robotic Walker for mobility and cognitive assistance of elderly and motor-impaired people”.
- 10/2018 - 12/2020 Senior Research Fellow**
Robotics Control and Decision Systems Lab (RCDS), Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology
Research on development and integration of a novel system for automatic early detection of wild forest-fire using Unmanned Aerial Vehicles (UAVs).
SFEDA - “Forest Monitoring System for Early Fire Detection and Assessment in the Balkan-Med Area”.
- 3/2015 - 12/2018 Post Doctoral Researcher**
Division of Signals, Control and Robotics, School of Electrical and Computer Engineering, National Tech. Univ. of Athens, Greece
Research on development and integration of an innovative, modular, ICT-supported service robotics system that supports and enhances frail older adults’ motion and force abilities and assists them in successfully, safely and independently completing the entire sequence of bathing tasks under the I-SUPPORT - “ICT - Supported Bath Robots”.

- 2/2013 - 3/2015** **Post Doctoral Researcher**
Division of Signals, Control and Robotics, School of Electrical and Computer Engineering, National Tech. Univ. of Athens, Greece
Research on development of methodology and algorithm for Assistive Robotic Systems for Elderly and Impaired Persons under the MOBOT - “Intelligent Active MObility Assistance RoBOT integrating Multimodal Sensory Processing, Proactive Autonomy and Adaptive Interaction”.
- 1/2004 - 6/2009** **Research Engineer**
Control Sys. Lab., Mech. Eng. Dept., National Tech. Univ. of Athens, Greece
Research on development of methodology and algorithm for Neuro - Robotics Systems under the NEUROBOTICS - “The Fusion of Neuroscience and Robotics for augmenting human capabilities”, contract (F6-IST-001917).
- 1/2006 - 6/2009** **Research Engineer**
Control Sys. Lab., Mech. Eng. Dept., National Tech. Univ. of Athens, Greece
Research on “Development of an advanced upper limb substitution system by interfacing electromyographic signals and a robot arm”, under 03ED 77 research project, implemented within the framework of the “Reinforcement Programme of Human Research Manpower” (PENED), Greek Ministry of Development - General Secretariat of Research and Technology.
- 8/2006 - 12/2006** **Visiting Research Scholar & Research Specialist/Lab**
Cooperative Robotics Lab., Mech. Eng. Dept., University of New Mexico, U.S.A.
Invited by Prof. Herbert G. Tanner, under a grant from Los Alamos National Lab. Conducted research on development theoretical and experimental technics for indoor radiation sensing and mapping using mobile robots and aerial vehicle. Attended Electrical and Mechanical Engineering lecture series, and supervised and guided the work of graduate students, involved in the project.
- 4/2002 - 12/2003** **Research Engineer**
Control Sys. Lab., Mech. Eng. Dept., National Tech. Univ. of Athens, Greece
Research on development of an algorithm for the Centralized Air Traffic Resolution and Control under the HYBRIDGE - “Distributed Control and Stochastic Analysis of Hybrid Systems Supporting Safety Critical Real-Time Systems Design”, contract (IST-2001-32460).
- 4/2002 - 6/2003** **Undergraduate Research Assistant**
Control Sys. Lab., Mech. Eng. Dept., National Tech. Univ. of Athens, Greece
- 7/2002 - 9/2002** **Research Assistant**
National Aerospace Lab, NLR, Amsterdam, Holland
Research regarding analysis of Air Traffic Control Systems Resolution and Control under the HYBRIDGE - “Distributed Control and Stochastic Analysis of Hybrid Systems Supporting Safety Critical Real-Time Systems Design”, contract (IST-2001-32460).
- 7/2001 - 9/2001** **Research Assistant**
Space Propulsion Group, German Aerospace Center, DLR, Germany
Research regarding flows of Non-Newtonian fluids for the propulsion system of Ariane V

TEACHING EXPERIENCE

Adjunct Assistant Professor (Spring 2022, 2023)

School of Mechanical Engineering, National Technical University of Athens, Greece

Under-Graduate level Courses on Introduction to Electronics and on Microprocessors Based Control.

Adjunct Assistant Professor (Fall 2022, 2023)

School of Mechanical Engineering, National Technical University of Athens, Greece

Under-Graduate level Courses on Advanced Control and on Robotics.

Adjunct Assistant Professor (Spring 2020, 2021)

Department of Physics, National and Kapodistrian University of Athens

Graduate level Course on Automatic Control Systems.

Adjunct Assistant Professor (Spring 2019, 2020)

Department of Physics, National and Kapodistrian University of Athens

Under-Graduate level Course on Automatic Control Systems.

Adjunct Lecturer (Fall 2015)

School of Electrical and Computer Engineering, National Technical University of Athens, Greece

Course on Robotics.

Laboratory Lecturer (Spring 2014)

School of Electrical and Computer Engineering, National Technical University of Athens, Greece

Course on Robotics.

Adjunct Lecturer (Fall, Spring 2010-2014)

Department of Automation, School of Technological Applications,

Technological Educational Institute of Piraeus, Greece

Course on “ Architecture, programming, and applications of Microcontrollers”.

Adjunct Lecturer (Fall, Spring 2008-2013)

Department of Automation, School of Technological Applications,

Technological Educational Institute of Piraeus, Greece

Course on “ Digital Control ”.

Teaching Assistant (Spring 2004 - 2008)

Mechanical Engineering Department, National Technical University of Athens, Greece

Assisted in teaching a graduate level course on Adaptive Control.

Teaching Assistant (Fall 2005)

Mechanical Engineering Department, National Technical University of Athens, Greece

Assisted in teaching a under-graduate level course on Introduction of Computer Science.

SEMINARS

19/09/2005 - 23/09/2005 Summer School on Robotics and Neuroscience, Spain

22/09/2004 - 24/09/2004 Summer School on Hybrid Systems: A Formal Paradigm for Safety Critical Embedded Systems, Greece

23/06/2003 - 26/06/2003 DISC Summer School on Modeling and Control of Hybrid Systems, Holland

RELEVANT EXPERIENCE

<i>Presentations</i>	Presented National Technical University of Athens research project results internationally
<i>Computer languages</i>	Pascal, Fortran, C,
<i>Software Platforms</i>	Mathematica, Matlab, Microsoft Office, SolidWorks
<i>Rendering and Visualization</i>	OpenGL, 3D Studio Max
<i>Operating Systems</i>	DOS, WINDOWS, Unix/Linux
<i>Languages</i>	Greek: Native, English: Very Good (F.C.E., Cambridge) German: Elementary knowledge

SCHOLARSHIPS & ACADEMIC DISTINCTIONS

- 2015 -** Best Paper Award, 8th International Conference on Integrated Modeling and Analysis in Applied Control and Automation
- 2008 -** Thomaidion Award for Scientific Publications
- 2007 -** Thomaidion Award for Scientific Publications
- 2006 -** Thomaidion Award for Scientific Publications
- 2005 -** Thomaidion Award for Scientific Publications
- 2005 -** Best Presentation Award, Joint 2005 International Symposium on Intelligent Control & 13th Mediterranean Conference on Control and Automation
- 2004 -** Thomaidion Award for Scientific Publications
- 2004 - 2005** Eugenides Foundation Scholarship for graduate studies
- 2002 - 2003** Award for Academic Excellence in Engineering Sciences for the academic year 2002-2003 (Awarded by the Technical Chamber of Greece; Given to the top 5 students of every year in each department)
- 2002 - 2003** Karydogianni Award for Academic Excellence in the Science of Mechanical Engineer for the academic year 2002-2003 (Awarded by the National Technical University of Athens; Given to the best student of every year in the Department of Mechanical Engineering)

MEMBERSHIPS AND PROFESSIONAL ACTIVITIES

- Professional Associations:* Member of The Institute of Electrical and Electronics Engineers (IEEE), since 2005, (Greece Section)
- Member of the IEEE Robotics and Automation Society
- Member of the IEEE Control Systems Society
- Member of the Technical Chamber of Greece
- Reviewer:* IEEE International Conference on Robotics and Automation
- IEEE/RSJ International Conference on Intelligent Robots and Systems
- IEEE Conference on Decision and Control
- IEEE Transactions on Robotics
- IEEE Transactions on Automation Science and Engineering
- IFAC Automatica
- Journal of Intelligent and Robotic Systems
- IEEE Conference on Automation Science and Engineering
- IEEE American Control Conference
- IEEE European Control Conference
- IEEE Mediterranean Conference on Control and Automation
- IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechanics
- Supervisor:* Supervised the thesis of Diploma Mechanical & Electrical Engineering students, Master of Science in Engineering students and PhD students and candidates at the National Technical University of Athens.

PUBLICATIONS

Thesis

- [2] **Xanthi S. Papageorgiou**, “Motion Tasks For Neuro-Robotic Systems”, *PhD Thesis*, School of Mechanical Engineering, NTUA Greece, Athens, June 2009 (in greek).
- [1] **Xanthi S. Papageorgiou**, “Air Traffic Management Using Neuro-Dynamic Programming”, *Diploma Thesis*, School of Mechanical Engineering, NTUA Greece, Athens, June 2003 (in greek).

Book Chapters

- [4] **Xanthi S. Papageorgiou**, George Tsampounaris, Alexandra Karavasili, Eleni Efthimiou, Stavroula-Evita Fotinea, Anna Vacalopoulou, Panagiotis Kariotis, Fotini Koureta, Despina Alexopoulou, Dimitris Dimou, “User-centered Implementation of Rehabilitation Exercising on an Assistive Robotic Platform”, in Stephanidis C., Antona M., Gao Q., Zhou J. (eds) *HCI International 2020 – Late Breaking Papers: Universal Access and Inclusive Design*, HCII 2020, Lecture Notes in Computer Science, vol 12426, Springer, Cham, https://doi.org/10.1007/978-3-030-60149-2_52.
- [3] George Moustris, Nikolaos Kardaris, Antigoni Tsiami, Georgia Chalvatzaki, Petros Koutras, Athanasios Dometios, Paris Oikonomou, Costas Tzafestas, Petros Maragos, Eleni Efthimiou, **Xanthi S. Papageor-**

giou, Stavroula-Evita Fotinea, Yiannis Koumpouros, Anna Vacalopoulou, Alexandra Karavasili, Alexandros Nikolakakis, Konstantinos Karaiskos, Panagiotis Mavridis, “The I-Walk Assistive Robot: A Multimodal Intelligent Robotic Rollator Providing Cognitive and Mobility Assistance to the Elderly and Motor-Impaired”, In: Saveriano M., Renaudo E., Rodríguez-Sánchez A., Piater J. (eds) Human-Friendly Robotics 2020. HFR 2020. Springer Proceedings in Advanced Robotics, vol. 18, pp 31-45, Springer, Cham, https://doi.org/10.1007/978-3-030-71356-0_3.

- [2] **Xanthi S. Papageorgiou**, Georgia Chalvatzaki, Athanasios C. Dometios, Costas S. Tzafestas, “Human-Centered Service Robotic Systems for Assisted Living”, in Advances in Service and Industrial Robotics, Chapter No: 14, Lecture Notes in Computer Science, N. A. Aspragathos et al. (Eds.): RAAD 2018, MMS 67, pp. 1-9, 2019, Springer International Publishing Switzerland (2019).
- [1] **Xanthi S. Papageorgiou**, Costas S. Tzafestas, Petros Maragos, Georgios Pavlakos, Georgia Chalvatzaki, George Moustris, Iasonas Kokkinos, Angelika Peer, Bartłomiej Stanzyk, Evita-Stavroula Fotinea, Eleni Efthimiou, “Advances in Intelligent Mobility Assistance Robot integrating Multimodal Sensory Processing”, C. Stephanidis and M. Antona (Eds.): UAHCI/HCI 2014, Part III, Lecture Notes in Computer Science: 8515, pp. 692-703, Springer International Publishing Switzerland (2014).

Journal Publications

- [15] Charithea Stylianides, Andria Nicolaou, Waqar Aziz Sulaiman, Christina-Athanasia Alexandropoulou, Ilias Panagiotopoulos, Konstantina Karathanasopoulou, George Dimitrakopoulos, Styliani Kleanthous, Elena Politi, Dimitris Ntalaperas, **Xanthi S. Papageorgiou**, Fransisco Garcia, Zinonas Antoniou, Nikos Ioannides, Lakis Palazis, Anna Vavlitou, Marios S. Pattichis, Constantinos Pattichis, Andreas S. Panayides, “AI Advances in ICU with an Emphasis on Sepsis Prediction: An Overview”, *Mach. Learn. Knowl. Extr.* (ISSN 2504-4990), Dec. 2024, (accepted).
- [14] Georgia Chalvatzaki, **Xanthi S. Papageorgiou**, Costas S. Tzafestas, Petros Maragos, “Learn to adapt to human walking: A Model-based Reinforcement Learning Approach for a Robotic Assistant Rollator”, *IEEE Robotics & Automation Letters*, vol. 4, no. 4, pp. 3774-3781, Oct. 2019, DOI: 10.1109/LRA.2019.2929996.
- [13] George Moustris, Nikolaos Kardaris, Antigoni Tsiami, Georgia Chalvatzaki, Petros Koutras, Thanasis Dometios, Paris Oikonomou, Costas Tzafestas, Petros Maragos, Eleni Efthimiou, **Xanthi S. Papageorgiou**, Stavroula-Evita Fotinea, Yiannis Koumpouros, Anna Vacalopoulou, Effie Papageorgiou, Alexandra Karavasili, Foteini Koureta, Dimitris Dimou, Alexandros Nikolakakis, Konstantinos Karaiskos, Panagiotis Mavridis, “The i-Walk Lightweight Assistive Rollator: First Evaluation Study”, March 2021, *Front. Robot. AI*, doi:10.3389/frobt.2021.677542.
- [12] Athanasia Zlatintsi, Athanasios Dometios, Nikolaos Kardaris, Isidoros Rodomagoulakis, Petros Koutras, **Xanthi S. Papageorgiou**, Petros Maragos, Costas Tzafestas, Panagiotis Varholomeos, Klaus Hauer, Christian Werner, Roberta Annicchiarico, Maria Giovanna Lombardi, Fulvia Adriano, Tamim Asfour, Angelo Maria Sabatini, Cecilia Laschi, Matteo Cianchetti, Riza Alp Guler, Iasonas Kokkinos, Barbara Klein, Rafael Lopez, “I-SUPPORT: a Robotic Platform of an Assistive Bathing Robot for the Elderly Population”, *Robotics and Autonomous Systems*, Vol. 126, 2020, 103451, <https://doi.org/10.1016/j.robot.2020.103451>.
- [11] Eleni Efthimiou, **Xanthi S. Papageorgiou**, Stavroula-Evita Fotinea, Alexandra Karavasili, Anna Vacalopoulou, Theodore Goulas, “Human Communication Driven HRI Design in a Mobility Assistance Robot”, October 2019, (submitted).
- [10] George Georgiades, **Xanthi S. Papageorgiou**, Savvas Loizou, “Real Time Information Integration and Decision System for Early Forest Fire Detection and Assessment”, September 2019, (submitted).
- [9] Georgia Chalvatzaki, **Xanthi S. Papageorgiou**, Costas S. Tzafestas, Petros Maragos, “Augmented Human State Estimation using Interacting Multiple Model Particle Filters with Probabilistic Data Association”, *IEEE Robotics & Automation Letters*, Vol. 3, No. 3, July 2018, p.p. 1872 - 1879, DOI: 10.1109/LRA.2018.2800084 .
- [8] Athanasios C. Dometios, You Zhou, **Xanthi S. Papageorgiou**, Costas S. Tzafestas, Tamim Asfour, “Vision-Based Online Adaptation of Motion Primitives to Dynamic Surfaces: Application on an Interactive Robotic Wiping Task”, *IEEE Robotics & Automation Letters*, Vol. 3, No. 3, July 2018, p.p. 1410 -

- [7] Christian Werner, Georgia Chalvatzaki, **Xanthi S. Papageorgiou**, Costas S. Tzafestas, Petros Maragos, “Assessing the Concurrent Validity of a Gait Analysis System Integrated into a Smart Walker in Older Adults with Gait Impairments”, *Clinical Rehabilitation*, May 2019, DOI:10.1177/0269215519852143.
- [6] Georgia Chalvatzaki, **Xanthi S. Papageorgiou**, Costas S. Tzafestas, “Human Leg Tracking using Particle Filtering with Probabilistic Data Association for an Intelligent Robotic Walker”, (submitted).
- [5] **Xanthi S. Papageorgiou**, Georgia Chalvatzaki, Costas S. Tzafestas, Petros Maragos, “Hidden Markov Modeling of Human Normal Gait using Laser Range Finder for Intelligent Mobility Assistance Robot”, (submitted).
- [4] Georgia Chalvatzaki, Kevis Maninis, Effrosyni Mavroudi, Nikolaos Kardaris, **Xanthi S. Papageorgiou**, Vassilis Pitsikalis, Costas S. Tzafestas, Petros Maragos, “Elderly Care from an Intelligent Robotic Walker Using Multimodal Sensorial Data in Assisted Living”, (submitted).
- [3] **Xanthi Papageorgiou**, Herbert G. Tanner, Savvas G. Loizou, Kostas J. Kyriakopoulos, “Switching Manipulator Control for Motion on Constrained Surfaces”, *Journal of Intelligent and Robotic Systems*, Vol. 62, No. 2, May 2011, p.p. 217-239, DOI: 10.1007/s10846-010-9447-2.
- [2] R. Andres Cortez, **Xanthi Papageorgiou**, Herbert G. Tanner, Alexei V. Klimenko, Konstantin N. Borozdin, Ron Lumia, William C. Priedhorsky, “Smart Radiation Sensor Management: Radiation Search and Mapping using Mobile Robots”, *IEEE Robotics & Automation Magazine*, Vol. 15, No. 3, September 2008, p.p. 85-93.
- [1] **Xanthi Papageorgiou**, Kostas J. Kyriakopoulos, “A Neuro-Dynamic Based Conflict Resolution Scheme for Air Traffic Management”, *JASS Journal of Applied Systems Studies, Methodologies and Applications for Systems Approaches*, Vol. 6, No. 3, March 2005.

Refereed Conference Proceedings

- [58] Athanasios Kiourtis, Argyro Mavrogiorgou, Georgios Makridis, Dimosthenis Kyriazis, John Soldatos, Georgios Fatouros, Dimitrios Ntalaperas, **Xanthi S. Papageorgiou**, Bruno Almeida, Joana Guedes, Pedro Maló, Jorge Oliveira, Sebastian Scholze, Antonio Rosinha, Joaquim Reis, Matteo Falsetta, “XR5.0: Human-Centric AI-Enabled Extended Reality Applications for Industry 5.0”, *2024 36th Conference of Open Innovations Association (FRUCT)*, Lappeenranta, Finland, 30 October - 01 November 2024, pp. 314-323, DOI: 10.23919/FRUCT64283.2024.10749931.
- [57] **Xanthi S. Papageorgiou**, Dimitris Kavroulakis, Dimitris Ntalaperas, Thanassis Bouras, “A Task Restricted Hierarchical Control Scheme Facilitating Small Logistics”, *Proceedings of the 2024 IEEE International Conference on Robotics and Automation, Workshop: 2nd Workshop on Mobile Manipulation and Embodied Intelligence (MOMA.v2)*, 13 - 17 May 2024, Yokohama, Japan.
- [56] George Manias, Spiros Borotis, Charalampos Chatzimallis, Tanja Zdolsek Draksler, Alenka Gucek, Fabiana Fournier, Andreas Karabetian, Dimitris Kotios, Matej Kovacic, Danai Kyrkou, Lior Limonad, Konstantinos Mavrogiorgos, Dimitris Ntalaperas, **Xanthi S. Papageorgiou**, Dimosthenis Kyriazis, “Fostering Fundamental Human Rights and Trustworthiness through the Utilization of Emerging Technologies: the AI4Gov Platform”, *Global Conference On AI And Human Rights*, 13 - 14 June 2024, Faculty of Law, University of Ljubljana, Slovenia.
- [55] **Xanthi S. Papageorgiou**, Danai Vergeti, Dimitris Ntalaperas, “Motion Tasks Representation: Extracting Knowledge from Human Experts”, *Proceedings of the 2023 IEEE International Conference on Robotics and Automation, Workshop: RAP4Robots - Effective representations, abstractions, and priors for robot learning*, 29 May – 2 June 2023, London, UK.
- [54] Nikos Papageorgopoulos, Danai Vergeti, Elena Politi, Dimitris Ntalaperas, **Xanthi S. Papageorgiou**, “Securing An Agri-Food Marketplace: An Implementation of a Robust Security Layer with API Gateway Integration”, *Proceedings of the 2023 IEEE 9th International Conference on Control, Decision and Information Technologies*, 03-06 July, 2023, Rome, Italy.

- [53] Christina-Athanasia Alexandropoulou, Ilias Panagiotopoulos, Charithea Stylianides, Styliani Kleanthous, George Dimitrakopoulos, Ioannis Constantinou, Stavri Vassiliou, Eleni Politi, Dimitrios Ntalaperas, **Xanthi S. Papageorgiou**, Nikos Ioannides, Lakis Palazis, Constantinos Pattichis and Andreas Panayides, “AI-enabled solutions, for predicting sepsis in ICUs: a systematic review”, *2023 2023 15th Cyprus Workshop on Signal Processing and Informatics (CWSPI)*, July 5, 2023, Limassol, Cyprus.
- [52] Christina-Athanasia Alexandropoulou, Ilias Panagiotopoulos, Styliani Kleanthous, George Dimitrakopoulos, Ioannis Constantinou, Eleni Politi, Dimitrios Ntalaperas, **Xanthi S. Papageorgiou**, Charithea Stylianides, Nikos Ioannides, Lakis Palazis, Constantinos Pattichis and Andreas Panayides, “AI-enabled solutions, explainability and ethical concerns for predicting sepsis in ICUs: a systematic review”, *2023 19th IEEE International Conference on e-Science - eScience*, October 9-14, 2023, Limassol, Cyprus, (to appear).
- [51] George Manias, Dimitris Dimitris, Sotiris Athanassopoulos, Spiros Borotis, Charalampos Chatzimallis, Theodoros Chatzipantelis, Marcelo Corrales Compagnucci, Tanja Zdolsek Draksler, Fabiana Fournier, Magdalena Goralczyk, Alenka Gucek, Andreas Karabetian, Stavroula Kefala, Dimitris Kotios, Matej Kovacic, Danaï Kyrkou, Lior Limonad, Sofia Magopoulou, Konstantinos Mavrogiorgos, Vasiliki MOUNTZI, Septimiu Nechifor, Dimitris Ntalaperas, Georgia Panagiotidou, Martha Papadopoulou, **Xanthi S. Papageorgiou**, Nikos Papageorgopoulos, Elena Politi, Vicky Stroumpou, Apostolos Vontas and Dimosthenis Kyriazis, “AI4Gov: Trusted AI for Transparent Public Governance Fostering Democratic Values”, *TI-2023: Next Generation IoT and AI systems for Trusted, Human-Centered Intelligence*, June 19-21, 2023, Pafos, Cyprus.
- [50] Nikos Kalantzis, Nikos Papageorgopoulos, Thanos Giannakopoulos, Elena Politi, Konstantinos Tzelaptsis, Eleni Tsironi, Dimitris Ntalaperas, **Xanthi S. Papageorgiou**, “Leveraging Distributed Ledger Technologies for Enhanced Transparency and Traceability in Agri-food Supply Chains”, *Proceedings of the 2023 10th European Conference on Service-Oriented and Cloud Computing*, October 24-25, 2023, Larnaca, Cyprus, (submitted).
- [49] Nikos Papageorgopoulos, Danaï Vergeti, Elena Politi, Dimitris Ntalaperas, **Xanthi S. Papageorgiou**, Manos Karvounis, Giannis Stoitsis, Braminir Rakic, Milos Kotlar, Simeon Petrov, Antony Kunchev, “An Agri-Food Data Platform for Food Safety and Certification”, *Proceedings of the 2022 9th Annual Conference on Computational Science and Computational Intelligence*, December 14-16, 2022, Las Vegas, USA.
- [48] Anagnostis Samanis, Panagiotis Trakas, **Xanthi S. Papageorgiou**, Kostas J. Kyriakopoulos, Charalampos Bechlioulis, “Learning Unknown Lagrange Dynamical Systems with Guaranteed Persistency of Excitation”, *Proceedings of the 2022 10th International Conference on Systems and Control*, Marseille, France, November 23-25, 2022, p.p. 372-378.
- [47] Spyros Tzeranis, Panagiotis Trakas, **Xanthi S. Papageorgiou**, Kostas J. Kyriakopoulos, Charalampos Bechlioulis, “Robust Prescribed Performance Control and Adaptive Learning for the Longitudinal Dynamics of Fixed-Wing UAVs”, *Proceedings of the 2022 10th International Conference on Systems and Control*, Marseille, France, November 23-25, 2022, p.p. 391-396.
- [46] **Xanthi S. Papageorgiou**, Athanasios C. Dometios, Costas S. Tzafestas, “Towards a User Adaptive Assistive Robot: Learning from Demonstration Using Navigation Functions”, *Proceedings of the 2021 IEEE RSJ International Conference on Intelligent Robots and Systems*, Prague, Czech, September 27 - October 1, 2021, p.p. 942-947.
- [45] George Moustiris, Nikolaos Kardaris, Antigoni Tsiami, Georgia Chalvatzaki, Petros Koutras, Athanasios Dometios, Paris Oikonomou, Costas Tzafestas, Petros Maragos, Eleni Efthimiou, **Xanthi S. Papageorgiou**, Stavroula-Evita Fotinea, Yiannis Koumpouros, Anna Vacalopoulou, Alexandra Karavasili, Alexandros Nikolakakis, Konstantinos Karaiskos and Panagiotis Mavridis, “The i-Walk Assistive Robot: A multimodal intelligent robotic rollator providing cognitive and mobility assistance to the elderly and motor-impaired”, *Proceedings of the 13th International Workshop on Human-Friendly Robotics (HFR 2020)*, Innsbruck, Austria, October 22-23, 2020.
- [44] **Xanthi S. Papageorgiou**, George Tsampounaris, Alexandra Karavasili, Eleni Efthimiou, Stavroula-Evita Fotinea, Anna Vacalopoulou, Panagiotis Karioris, Fotini Koureta, Despina Alexopoulou, Dimitris Dimou, “User-centered Implementation of Rehabilitation Exercising on an Assistive Robotic Platform”, *Proceedings of the 22nd International Conference on Human-Computer Interaction*, Copenhagen, Denmark, 19-24 July 2020.

- [43] Anna Vacalopoulou, **Xanthi S. Papageorgiou**, Stavroula-Evita Fotinea, Eleni Efthimiou, “Multimodal human data capturing in the context of building communication models for human-machine interaction and Sign Language recognition”, *Workshop: Measurements in Linguistic Studies*, Athens, Greece, December 18, 2019.
- [42] Georgia Chalvatzaki, **Xanthi S. Papageorgiou**, Costas S. Tzafestas, Petros Maragos, “Learn to adapt to human walking: A Model-based Reinforcement Learning Approach for a Robotic Assistant Rollator”, *Proceedings of the 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems*, November 3 - 8, 2019, Macau, China.
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