

CURRICULUM VITAE

Name: Maria P. Tzamtzi

Place of Birth: Athens

Date of Birth: 22 November 1969

Position

- Professor of «Automatic Control Systems», Department of Digital Industry Technologies, National and Kapodistrian University of Athens (NKUA)
- Vice-Head of the Department of Digital Industry Technologies, NKUA.
- Member of the Robotics, Automatic Control and Cyber-Physical Systems (RCCL) Lab, NKUA
- Member of the Steering Committee of the MSc Program on Robotics and Industrial Control, NKUA
- Member of the Program Committee of the MSc Program on Digital Humanities, NKUA

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Studies

- Diploma in Electrical Engineering, National Technical University of Athens (NTUA), Greece (1992).
- PhD in Automatic Control, Division of Informatics, Department of Electrical and Computer Engineering, National Technical University of Athens, Greece (1998).

Teaching and Research Experience

- Participation in projects of the Special Account for Research Grants of NKUA
- Participation in research projects of the Institute of Communication and Computer Systems, NTUA.
- Researcher on “Control” in the Institute of Accelerating Systems and Applications, NKUA/NTUA
- Participation in research projects of the Special Account for Research Grants, Technological Education Institute (TEI) of Halkis.
- Introduction and Content Composition of courses in Graduate Program of the Dep. of Agriculture Crop Production and Rural Environment, Univ. of Thessaly in partnership with Dep. of Automation of TEI of Halkis "Automation in Irrigation, the Agricultural Construction and Mechanization of Agriculture".
- Introduction and Content Composition of courses in the Graduate Program of the Dep. of Automation Eng. of the TEI of Sterea Ellada "Advanced Control Systems and Robotics"
- Introduction and Content Composition of courses in the Graduate Program of the Dep. of Digital Industry Technologies of the National and Kapodistrian University of Athens "Robotics and Industrial Control"
- Introduction and Content Composition of courses in the Joint Graduate Program of the National and Kapodistrian University of Athens/University of Cyprus/ATHENA Research Center, "Digital Humanities"

Project Participation

Project Leader: "Employment and Career Structure of HIT" of the OP "Education and Lifelong Learning" - ESF and National Funds

Project Leader: «Presentation of the results of the projects of the Operational Programme for Education and Initial Vocational Training of HIT» - ESF and National Funds
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Principal Investigator: "Collaborative Industrial Robotic Arms" (Operational Programme for Education and Initial Vocational Training) – ESF and National Funds
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Project Leader: «Laboratory Scientific Equipment of Higher Education Departments» – ESF and National Funds.

Researcher: “Development of Soft Sensors in Water Distribution Networks (DeSw)”, co-funded by Greece and EU – NextGenerationEU
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Contributor - Training program in "Educational Robotics" of NKUA – Greece.
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Contributor – «Central Action of the Act of the Special Account of Research Funds of the TEI of Chalkida "ARCHIMEDES III - Strengthening of Research Teams at HIT"» – Greece.
Researcher – «Automated Design of High-Performance and Low-Cost Industrial Controllers Using FPGA Tiers» – Greece.
Contributor – «Internship for students of the Department of Automation of HIT» – Greece.
Contributor – «Innovation and Entrepreneurship Unit of HIT» – Greece.
Contributor – «Quality Assurance Unit of HIT» – Greece.
Contributor – «HIT Career Office » – Greece.
Contributor – «Internship for students of the Department of Automation of the School of Technological Applications of HIT - Phase 3» – Greece.
Researcher – «Maximization energy gains from the cultivation of sorghum energy plant by intelligent irrigation regulation» – Greece.
Contributor – «Elaboration of the Business Plan / Action Implementation Plan for the organization, administration and operation of the Institute of Lifelong Education of HIT» – Greece.
Researcher – «Automation Integration in Industrial Decision Support Systems - Supervisory Agents» – Greece
Researcher – «Hybrid Industrial Controllers» – Greece.
Researcher - «Introduction and Implementation of Electronic Automated Information Management Systems for Asynchronous Distance Education and E-Commerce in Rural Entrepreneurship» – Greece.
Researcher –“Project Management Training” – Greece.
Contributor –“ Project manager for the 4.2.A Business data processing project of the Ministry of Education” – Greece.
Researcher –“ Intelligent Robotic Trajectory Programming and Control System” – Greece.
Researcher –“Hellenic Automation Project for Quality (HELLASPIQ)” – Greece.

Distinctions / Scholarships

- Olympiad Medal (International Olympiad Committee in Eng. Science – Olympiad in Eng. Science 2023) for the paper “Supervisory control of multiple product flow for a flexible manufacturing system”, authored by F. N. Koumboulis, D. G. Fragkoulis, M. P. Tzamtzi and D. Papadopoulos.
- Best paper award (Springer International Conference on Frontiers of Artificial Intelligence, Ethics, and Multidisciplinary Applications, 2024) for the paper “A Supervisory Control Scheme Towards Exchanging Formations of a Parametric Number of Mobile Robots”, authored by D. G. Fragkoulis, F. N. Koumboulis, N. D. Kouvakas, M. P. Tzamtzi and K. A. Ioannou.
- Scholarship from the National Scholarship Foundation for the performance in undergraduate studies.
- Scholarship from the National Scholarship Foundation for PhD Dissertation.
- Scholarship from the Bodossaki Foundation for PhD Dissertation.
- Reviewer in international scientific journals and conferences.
- Author of scientific publications that have received more than 610 citations

Other Academic Experience (indicative)

- Steering committee member of the Springer 4th International Conference on Frontiers of Artificial Intelligence, Ethics, and Multidisciplinary Applications, 2026, Italy.
- Steering committee member of the Springer 3rd International Conference on Frontiers of Artificial Intelligence, Ethics, and Multidisciplinary Applications, 2025, Stavanger, Norway.
- General Chair of the Springer 2nd International Conference on Frontiers of Artificial Intelligence, Ethics, and Multidisciplinary Applications, 2024, Athens, Greece
- Member of the Organizing Committee - Local Chair of the Springer 1st International Conference on Frontiers of Artificial Intelligence, Ethics, and Multidisciplinary Applications, 2023, Athens, Greece.

- Co-editor in «Horizons of AI: Ethical considerations and Interdisciplinary Engagements – 2nd International Conference on Frontiers of AI, Ethics, and Multidisciplinary Applications (FAIEMA), Greece, 2024», Springer Nature Singapore Pte Ltd.
- Co-editor in «Frontiers of Artificial Intelligence, Ethics, and Multidisciplinary Applications - 1st International Conference on Frontiers of AI, Ethics, and Multidisciplinary Applications (FAIEMA), Greece, 2023», Springer Nature Singapore Pte Ltd.
- Director of the Graduate Program “MSc in Augmented Textual Studies: Text Encoding and Text Mining”, School of Science, National and Kapodistrian University of Athens
- Member of the Committee that composed the Undergraduate Program of Studies for the Department of Digital Industry Technologies, School of Science, National and Kapodistrian University of Athens
- Member of the Coordinating Committee of the Graduate Program of the Core Department of the National and Kapodistrian University of Athens "Advanced Control Systems and Robotics" (2019-2022)
- Member of the Coordinating Committee of the Graduate Program of the Department of Automation Engineering of the Technological Education Institute of Sterea Ellada "Advanced Control Systems and Robotics" (2014-2019).
- Deputy representative of the Technological Education Institute of Sterea Ellada at the Hellenic Foundation for Research and Innovation
- Vice-President of TEI of Halkis/ Head of the Special Account for Research Grants of the TEI of Halkis.
- Head of the Department of Automation Engineering of the Technological Education Institute of Sterea Ellada.
- Deputy Head of the Department of Automation Engineering of the Technological Education Institute of Sterea Ellada.
- Head of the Division of Automatic Control of the Department of Automation of the Technological Education Institute of Sterea Ellada (former Technological Education Institute of Halkis)
- Member of the Quality Assurance Unit of the Technological Education Institute of Halkis.

Research Interests

Supervisory control for cyber-physical systems, robot control systems, industrial control, switching systems, robust control, intelligent control systems, nonlinear control, AI applications in automatic control, soft-sensors

Publications on selected topics:

- Soft sensor design and implementation: C.53, C.55, C.62, C.63, C.65
- WDN supervision: C.54, C.56, C.59, C.60, C.64
- Switching control framework: J.10, J.17, C.9 - C.11, C.26, C.30, C.31, C.33, C.36, C.39, C.40, A.5
- Intelligent agents for industrial applications: J.10, J.12, C.12, C.30, C.33
- AI based controller tuning: J.9, J.11, J.14, J.15, J.16, J.18, BC.6, BC.8, C.15, C.25, C.27, C.32, C.37, C.38, C.46, C.51, A.6
- Robot control: J.4, J.6, J.9, J.11, J.18, C.3, C.15, C.18, C.24, C.26, C.29, C.27, C.32, C.34, C.35
- Nonlinear systems analysis and control design: J.3-J.5, J.7, J.9, J.14, J.15, J.18, C.4, C.5, C.6, C.8, C.15, C.24, C.29, C.34, C.37, C.38, BC.3
- Cyber-physical systems supervision: J.19, C.43-C.47, C.48-C.50, C.52, C.57, C.61
- Robust system analysis and control: J.1, J.2, J.3, J.4, J.6, J.8, J.11, C.1-C.8, C.13, C.14, C.17, C.20, C.21, C.23, C.28, C.32, C.35, C.41, C.42 BC.1-BC.3, BC.6, O.2

Scientific Publications

Publications in Scientific Journals

- [J.1] S. G. Tzafestas and M. P. Tzamtzi, Robustness of a Spectral Assignment Method Applied to the System of a Flexible Beam, *International Journal of Control*, vol. 70, pp. 859-872, 1998.
- [J.2] S. G. Tzafestas and M. P. Tzamtzi, On the Robust Stability of Linear Systems with Parametric Uncertainty, *Systems Science*, vol. 24, no. 3, pp. 59-65, 1998.
- [J.3] M. P. Tzamtzi and S. G. Tzafestas, A Small-Gain Theorem for Locally Input-to-State Stable Interconnected Systems, *Journal of the Franklin Institute*, vol. 336, pp. 893-901, 1999.
- [J.4] M. P. Tzamtzi and S. G. Tzafestas, Stability Robustness of Feedback Linearizable Systems with Input Unmodeled Dynamics, *IEE Proceedings on Control Theory and Applications*, vol. 146, pp. 77-83, 1999.

- [J.5] M. Tzamtzi and J. Tsinias, Explicit Formulas of Feedback Stabilizers for a Class of Triangular Systems with Uncontrollable Linearization, *Systems and Control Letters*, vol. 38, pp. 115-126, 1999.
- [J.6] S. G. Tzafestas, M. P. Tzamtzi and G. G Rigatos, Robust Motion Planning and Control of Mobile Robots for Collision Avoidance in Terrains with Moving Objects, *Mathematics and Computers in Simulation*, vol. 59, pp. 279-292, 2002.
- [J.7] J. Tsinias and M. P. Tzamtzi, An Explicit Formula of Bounded Feedback Stabilizers for Feedforward Systems, *Systems and Control Letters*, vol. 43, pp. 247-261, 2001.
- [J.8] F.N. Koumboulis, M.G. Skarpetis, M.P. Tzamtzi, Robust Disturbance Rejection for Left Invertible Singular Systems with Nonlinear Uncertain Structure, *International Journal of Mechanical and Mechatronics Engineering*, World Academy of Science, Engineering and Technology, vol. 1, no. 7, pp. 343-348, 2007 / *International Journal of Mathematical, Physical and Engineering Sciences*, World Academy of Science, Engineering and Technology, vol. 1, no. 3, pp. 133-138, 2007 / *International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering*, World Academy of Science, Engineering and Technology, vol. 1, no. 7, pp. 343-348, 2007.
- [J.9] M.P. Tzamtzi, F.N. Koumboulis, Sloshing Control in Tilting Phases of the pouring process, *International Journal of Computer and Information Engineering*, World Academy of Science, Engineering and Technology, vol. 1, no. 10, pp. 3035-3042, 2007 / *International Journal of Mathematical, Physical and Engineering Sciences*, World Academy of Science, Engineering and Technology, vol. 1, no. 3, pp. 175-182, 2007.
- [J.10] F.N. Koumboulis and M.P. Tzamtzi, A Supervisory Scheme for Stepwise Safe Switching Controllers, *International Journal of Mechanical and Mechatronics Engineering*, World Academy of Science, Engineering and Technology, vol. 1, no. 7, pp. 335-342, 2007 / *International Journal of Mathematical, Physical and Engineering Sciences*, World Academy of Science, Engineering and Technology, vol. 1, no. 3, pp. 125-132, 2007.
- [J.11] M. P. Tzamtzi, F. N. Koumboulis, N. D. Kouvakas and M. G. Skarpetis, Robustness in Liquid Transfer Vehicles with Delayed Resonators, *WSEAS Transactions on Systems*, vol. 7, pp. 1359-1370, 2008.
- [J.12] M. Pavlovic, F. N. Koumboulis, M. P. Tzamtzi and C. Rozman, Role of Automation Agents in Agribusiness Decision Support Systems, *Agrociencia*, vol. 42, pp. 913-923, 2008.
- [J.13] F. N. Koumboulis, M. P. Tzamtzi and M. G. Skarpetis, A Decision Support System for Safe Switching Control – Design and Implementation, *WSEAS Transactions on Systems and Control*, no. 11, vol. 3, pp. 954-966, 2008.
- [J.14] F. N. Koumboulis, M. P. Tzamtzi and M. G. Skarpetis, On the Modelling and Controller Design for the Outpouring Phase of the Pouring Process, *WSEAS Transactions on Systems and Control*, vol. 4, no. 1, pp. 11-20, 2009.
- [J.15] F. N. Koumboulis, N. D. Kouvakas, M. P. Tzamtzi and A. Stathaki, Metaheuristic control of substrate concentration for an activated sludge process, *International Journal of Modelling, Identification and Control*, vol. 10, no. 1, pp. 117-125, 2010.
- [J.16] F. N. Koumboulis and M. P. Tzamtzi, A generalised control metaheuristic framework for industrial processes, *International Journal of Automation and Control*, vol. 4, no. 2, pp. 218- 233, 2010.
- [J.17] F. N. Koumboulis, M. P. Tzamtzi and C. E. Economakos, Step-wise safe switching control of a constant turning force system, *International Journal of Modelling, Identification and Control*, vol. 12, no. 3, pp. 191–199, 2011.
- [J.18] M. P. Tzamtzi, F. N. Koumboulis and M. G. Skarpetis, On the control of the liquid pouring process using cooperative manipulators, *International Journal of Modelling, Identification and Control*, vol. 12, no. 1–2, pp. 173–181, 2011.
- [J.19] D.G. Fragkoulis, F.N. Koumboulis, M.P. Tzamtzi, P.G. Totomis, Event-based supervisor control for a cyber-physical waterway lock system, *Computer-Aided Civil and Infrastructure Engineering*, 2024, Wiley Online Library

Publications in Peer-Reviewed Conference Proceedings

- [C.1] S. G. Tzafestas and M. P. Tzamtzi, Robustness of a Spectral Assignment Method Applied to the System of a Flexible Beam, *Proceedings of the 2nd IEEE Mediterranean Symposium on New Directions in Control & Automation*, 19-22 June 1994, Chania, Greece, pp. 519-526.
- [C.2] S. G. Tzafestas and M. P. Tzamtzi, An Alternative Relaxed Sufficient Condition for the Robust Stability of Uncertain Matrices, *Proceedings of the Intl. IMACS/IEEE Symp. on Control*

- Optimization and Supervision, CESA '96, IMACS Multiconference on Computer Engineering in Systems Applications, 9-12 July 1996, Lille, France, pp.1274-1277.*
- [C.3] S. G. Tzafestas, M. P. Tzamtzi and G. G. Rigatos, Robust Control and Motion Design for Mobile Robots in a Time-Varying Environment, *Proceedings of the Intl. IMACS/IEEE Symp. on Robotics and Cybernetics, CESA '96, IMACS Multiconference on Computer Engineering in Systems Applications, 9-12 July 1996, Lille, France, pp. 706-711.*
 - [C.4] M. P. Tzamtzi and S. G. Tzafestas, On the Local Input-to-State Practical Stability of Feedback Interconnected Systems, *Proceedings of the UKACC International Conference on CONTROL '98, 1-4 Sep. 1998, University of Wales Swansea, UK, pp. 877-881.*
 - [C.5] M. P. Tzamtzi and S. G. Tzafestas, Stability Robustness of Nonlinear Systems Amenable to Feedback Linearization, *Proc. of the IFAC Symposium on Nonlinear Control Systems, 1-3 July, 1998, Enschede, the Netherlands, pp. 504-509.*
 - [C.6] M. P. Tzamtzi, A Small-Gain Theorem for Locally Input-to-Output Stable Interconnected Systems', in *Proceedings of the 8th IEEE Mediterranean Conference on Control & Automation, July 17-19 2000, Patra, Greece.*
 - [C.7] M. P. Tzamtzi, Stability Robustness for Polytopes of Operators in Hilbert Spaces, in *Proceedings of the 2nd WSEAS International Conference on: Mathematics and Computers in Mechanical Engineering (MCME 2000), 10-14 July 2000, Athens, Greece.*
 - [C.8] M. P. Tzamtzi, Robust Local Input-to-Output Practical Stability of Feedback Linearizable Systems, *Proceedings of the 2nd WSEAS International Conference on: Mathematics and Computers in Mechanical Engineering (MCME 2000), 10-14 July 2000, Athens, Greece.*
 - [C.9] F. N. Koumboulis, M. P. Tzamtzi and G. E. Chamilothoris, Iterative Feedback Tuning Safe Switching Controllers, *Proceedings of the 13th Mediterranean Conference on Control and Automation (2005 ISIC-MED), Limassol- Cyprus, 27-29 June 2005, pp. 938-945, 2005.*
 - [C.10] F. N. Koumboulis and M. P. Tzamtzi, Input/Output Decoupling for 2-Model Plants via Dynamic Output Feedback, *Proceedings of the International Conference on Computational Intelligence for Modelling, Control and Automation – CIMCA '2005, Vienna – Austria, vol. I, pp. 498-504.*
 - [C.11] F. N. Koumboulis and M. P. Tzamtzi, Multivariable Step-Wise Safe Switching Controllers, *Proceedings of the International Conference on Computational Intelligence for Modeling, Control and Automation – CIMCA '2005, Vienna – Austria, vol. II, pp. 624-630.*
 - [C.12] F. N. Koumboulis and M. P. Tzamtzi, Automation Agents Embedded in Industrial Decision Support Systems, *Proceedings of the International Conference on Intelligent Agents, Web Technologies and Internet Commerce – IAWTIC '2005, Vienna – Austria, vol. I, pp. 51-57.*
 - [C.13] F. N. Koumboulis, M. P. Tzamtzi and M. G. Skarpetis, Robust Exact Model Matching for SISO Systems via Finite Precision Dynamic Output Feedback, *Proceedings of the 14th Mediterranean Conference on Control and Automation (2006), Ancona, Italy, June-28-30, 2006.*
 - [C.14] F. N. Koumboulis, M. G. Skarpetis and M. P. Tzamtzi, Robust PI Controllers for Command Following with Application to an Electropneumatic Actuator, *Proceedings of the 14th Mediterranean Conference on Control and Automation (2006), Ancona, Italy, June-28-30, 2006.*
 - [C.15] M. P. Tzamtzi, F. N. Koumboulis, N. D. Kouvakas and G. E. Panagiotakis, A Simulated Annealing Controller for Sloshing Suppression in Liquid Transfer with Delayed Resonators, *Proceedings of the 14th Mediterranean Conference on Control and Automation (2006), Ancona, Italy, June-28-30, 2006.*
 - [C.16] F. N. Koumboulis, M. P. Tzamtzi and M. Pavlovic, Decision Support Systems in Agribusiness, *Proceedings of the 2006 IEEE International Conference on Mechatronics (ICM 2006), Budapest, Hungary, July 3-5, 2006, pp. 457-461.*
 - [C.17] F. N. Koumboulis, M. P. Tzamtzi and M. G. Skarpetis, Finite Precision Controllers for Robust Pole Assignment of Linear Systems with Nonlinear Uncertain Structure, in *Proceedings of the 11th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2006), Prague, Czech Republic, September 20-22, 2006, pp. 725-732.*
 - [C.18] M. P. Tzamtzi and F. N. Koumboulis, Towards Squeezing Forces Control for Cooperating Manipulators, *Proceedings of the 11th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2006), Prague, Czech Republic, September 20-22, 2006, pp. 993-996.*
 - [C.19] C. E. Economakos, F. N. Koumboulis and M. P. Tzamtzi, Recursive Synthesis of Robust Supervisory Controllers for Vector Discrete Event Systems, *Proceedings of the 32nd Annual Conference of the IEEE Industrial Electronics Society (IECON'06), Paris, France, 7-10 Nov. 2006, pp. 4731-4736.*

- [C.20] F. N. Koumboulis, M. G. Skarpetis and M. P. Tzamtzi, Robust PID Controller Design with Application to a Flight Actuator, *Proceedings of the 32nd Annual Conference of the IEEE Industrial Electronics Society (IECON'06)*, Paris, France, 7-10 Nov. 2006, pp. 4725-4730.
- [C.21] F. N. Koumboulis, M. G. Skarpetis and M. P. Tzamtzi, Robust Input – Output Decoupling for Singular Systems with Nonlinear Uncertain Structure Presentation, *Proceedings of the European Control Conference*, Kos, Greece, July 2-5, 2007, pp. 3946-3950.
- [C.22] C. E. Economakos, F. N. Koumboulis and M. P. Tzamtzi, Robust Dynamic Control of Vector Discrete Event Systems, *Proceedings of the European Control Conference*, Kos, Greece, July 2-5, 2007, pp. 5508-5515.
- [C.23] M. G. Skarpetis, F. N. Koumboulis and M. P. Tzamtzi, Robust Control Techniques for Hydraulic Actuators, *Proceedings of the 15th Mediterranean Conference on Control and Automation*, Athens, Greece, 2007.
- [C.24] M. P. Tzamtzi, F. N. Koumboulis and N. D. Kouvakas, A Two Stage Robot Control for Liquid Transfer, *Proceedings of the 12th IEEE Conf. on Emerging Techn. and Factory Autom.*, Patras, Greece, 2007, pp. 1324-1333.
- [C.25] F. N. Koumboulis and M. P. Tzamtzi, A metaheuristic approach for controller design of multivariable processes, *Proceedings of the 12th IEEE Conf. on Emerging Techn. and Factory Autom.*, Patras, Greece, 2007, pp. 1429-1432
- [C.26] F. N. Koumboulis, M. P. Tzamtzi and G. E. Chamilothis, Multivariable Iterative Feedback Tuning – A Step-Wise Safe Switching Approach, *Proceedings of the 12th IEEE Conf. on Emerging Techn. and Factory Autom.*, Patras, Greece, 2007, pp. 1354-1363.
- [C.27] M. P. Tzamtzi and F. N. Koumboulis, A Metaheuristic Controller for Cooperative Manipulators, *Proceedings of the IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2007)*, Patras, Greece, 2007, pp. 124-128.
- [C.28] F. N. Koumboulis, M. G. Skarpetis and M. P. Tzamtzi, Robust Disturbance Rejection for Left Invertible Singular Systems with Nonlinear Uncertain Structure, *Proceedings of the WASET International Conference on Control, Automation and Systems (ICCAS 2007)*, Venice, Italy, 2007, pp. 252-257.
- [C.29] M. P. Tzamtzi and F. N. Koumboulis, Sloshing Control in Tilting Phases of the pouring process, *Proceedings of the WASET International Conference on Control, Automation and Systems (ICCAS 2007)*, Venice, Italy, 2007, pp. 454-461.
- [C.30] F. N. Koumboulis and M. P. Tzamtzi, A Supervisory Scheme for Stepwise Safe Switching Controllers, *Proceedings of the WASET International Conference on Control, Automation and Systems (ICCAS 2007)*, Venice, Italy, 2007, pp. 244-251.
- [C.31] F. N. Koumboulis and M. P. Tzamtzi, A Process Application of Step-Wise Safe Switching Control, *Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 07)*.
- [C.32] M. P. Tzamtzi and F. N. Koumboulis, Robustness of a Robot Control Scheme for Liquid Transfer, *International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 07)*
- [C.33] F. N. Koumboulis, M. P. Tzamtzi and M. G. Skarpetis, A Decision Support System for Safe Switching Control, in *Proceedings of the 6th WSEAS International Conference on CIRCUITS, SYSTEMS, ELECTRONICS, CONTROL & SIGNAL PROCESSING (CSECS'07)*, Cairo, Egypt, 2007, pp. 214-221
- [C.34] M. P. Tzamtzi, F. N. Koumboulis and M. G. Skarpetis, On the Controller Design for the Outpouring Phase of the Pouring Process, *Proceedings of the 6th WSEAS International Conference on CIRCUITS, SYSTEMS, ELECTRONICS, CONTROL & SIGNAL PROCESSING (CSECS'07)*, pp. 270-277
- [C.35] M. P. Tzamtzi, F. N. Koumboulis, N. D. Kouvakas and M.G. Skarpetis, Robustness in Liquid Transfer Vehicles with Delayed Resonators, *Proceedings of the 6th WSEAS International Conference on CIRCUITS, SYSTEMS, ELECTRONICS, CONTROL & SIGNAL PROCESSING (CSECS'07)*, pp. 233-238
- [C.36] F. N. Koumboulis, M. P. Tzamtzi and C. E. Economakos, Step-Wise Safe Switching Control of a Constant Turning Force System, *Proceedings of the International Conference on Modelling, Identification and Control (ICMIC 2008)*, June 29 - July 2, 2008, Shanghai, China
- [C.37] F. N. Koumboulis, N. D. Kouvakas, M. P. Tzamtzi and A. Stathaki, Metaheuristic Control of Substrate Concentration for an Activated Sludge Process, *Proceedings of the International Conference on Modelling, Identification and Control (ICMIC 2008)*, June 29 - July 2, 2008, Shanghai, China

- [C.38] M. P. Tzamtzi, F. N. Koumboulis and M. G. Skarpetis, On the Control of the Liquid Pouring Process Using Cooperative Manipulators, *Proceedings of the International Conference on Modelling, Identification and Control (ICMIC 2008)*, June 29 - July 2, 2008, Shanghai, China
- [C.39] F. N. Koumboulis and M. P. Tzamtzi, Towards Step-Wise Safe Switching Climate Control for a Greenhouse, *Proceedings of the 13th IEEE International Conference on Emerging Technologies and Factory Automation*, Hamburg, Germany, Sep. 2008, pp. 1400-1407
- [C.40] F. N. Koumboulis, M. P. Tzamtzi and C. E. Economakos, Control of a Constant Turning Force System via Step-Wise Safe Switching Iterative Feedback Tuning, *Proceedings of the 13th IEEE International Conference on Emerging Technologies and Factory Automation*, Hamburg, Germany, Sep. 2008, pp. 1416-1424
- [C.41] C. Economakos, M. Tzamtzi, and G. Economakos, A scalable FPGA-based architecture for digital controllers and a corresponding rapid prototyping design methodology, *Industrial Electronics (ISIE), 2014 IEEE 23rd International Symposium on*, 2014, pp. 1870–1875.
- [C.42] C. Economakos, M. Tzamtzi, M. Skarpetis and G. Economakos, Performance improvements in a modern hardware design environment for control applications, *Industrial Technology (ICIT), 2015 IEEE International Conference on*, 2015, pp. 1587–1592.
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