

CURRICULUM VITAE

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KOZANI, GREECE
MARCH 2024

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CURRICULUM VITAE

1. PERSONAL INFORMATION

SURNAME: PLOSKAS
FIRST NAME: NIKOLAOS
FATHER'S NAME: IOANNIS
MOTHER'S NAME: THEODORA
DATE OF BIRTH: 24 JUNE 1985
PLACE OF BIRTH: KOZANI
WORK ADDRESS: CAMPUS ZEP
KOZANI 501 50, Greece
WORK PHONE: +30 2461056528
MOBILE PHONE: +30 6937109390
EMAIL: nploskas@uowm.gr, ploskasn@gmail.com

2. EDUCATION

01/2010 – 01/2014: Ph.D. in Computer Science at the Department of Applied Informatics, University of Macedonia, Thessaloniki, Greece. Subject: Hybrid optimization algorithms – implementation on GPU. Grade: Excellent. Supervisor: Prof. Nikolaos Samaras.

10/2007 – 07/2009: M.Sc. in Computer Science at the Department of Applied Informatics, University of Macedonia, Thessaloniki, Greece. Thesis subject: Parallel programming of an exterior point algorithm for solving linear programming problems. GPA: 9.58 (on a scale of 0 to 10).

09/2003 – 09/2007: B.Sc. in Computer Science at the Department of Applied Informatics, University of Macedonia, Thessaloniki, Greece. Thesis subject: Development of software for conducting computational studies. GPA: 8.01 (on a scale of 0 to 10).

2003: Graduation from the 2nd High School of Kozani, Greece. GPA: 18.7 (on a scale of 0 to 20).

3. HONORS – AWARDS

January 2024: Award for outstanding university teaching of the University of Western Macedonia for the academic years 2021 – 2022 and 2022 – 2023.

December 2023: The paper entitled “*Review and comparison of algorithms and software for mixed-integer derivative-free optimization*”, published in Journal of Global Optimization (JoGO), was awarded the best paper award of the journal for 2022.

September 2023: Honorable mention for the highest score from the evaluation of the students of the Department of Electrical & Computer Engineering of the University of Western Macedonia for the spring semester of the academic year 2022 – 2023.

May 2022: Honorable mention for the highest score from the evaluation of the students of the Department of Electrical & Computer Engineering of the University of Western Macedonia

for the winter semester of the academic year 2021 – 2022.

December 2021: Award for Research and Excellence from the University of Western Macedonia for the year 2020.

May 2021: Honorable mention for the highest score from the evaluation of the students of the Department of Electrical & Computer Engineering of the University of Western Macedonia for the winter semester of the academic year 2020 – 2021.

December 2020: Award for Research and Excellence from the University of Western Macedonia for the year 2019.

July 2016: The paper entitled “*An interactive spatial decision support system enabling co-located collaboration using tangible user interfaces for the multiple capacitated facility location problem*”, published in International Journal of Decision Support System Technology (IJDSST), was selected among the winners of the Eighth Annual Excellence in Research Journal Awards, as one of the best articles from the 2015 volume year.

June 2016: Research award for scientific papers published in 2014 – 2015 from the University of Western Macedonia.

June 2015: Winner of the 2014 HELORS (Hellenic Operational Research Society) Doctoral Dissertation Award.

May 2010: I graduated with the highest degree (9.58 on a scale of 0 to 10) at the Master in Computer Science of the Department of Applied Informatics, University of Macedonia, Greece.

February 2009: Scholarship for second best GPA in the fourth semester at the Master in Computer Science of the Department of Applied Informatics, University of Macedonia, Greece.

October 2008: Scholarship for best GPA in the third semester at the Master in Computer Science of the Department of Applied Informatics, University of Macedonia, Greece.

February 2008: Scholarship for second best GPA in the second semester at the Master in Computer Science of the Department of Applied Informatics, University of Macedonia, Greece.

October 2007: Scholarship for best GPA in preliminary rate at the Master in Computer Science of the Department of Applied Informatics, University of Macedonia, Greece.

4. ACADEMIC AND PROFESSIONAL EXPERIENCE

4.1. ACADEMIC EXPERIENCE

10/02/2023 – today: Associate Professor at the Department of Electrical & Computer Engineering, University of Western Macedonia, Greece.

17/10/2018 – 10/02/2023: Assistant Professor at the Department of Electrical & Computer Engineering, University of Western Macedonia, Greece.

02/10/2023 – 31/07/2024: Adjunct Lecturer at the School of Business Administration, Hellenic Open University, Greece.

03/10/2022 – 31/07/2023: Adjunct Lecturer at the School of Business Administration, Hellenic Open University, Greece.

04/10/2021 – 31/07/2022: Adjunct Lecturer at the School of Business Administration, Hellenic Open University, Greece.

05/10/2020 – 31/07/2021: Adjunct Lecturer at the School of Business Administration, Hellenic Open University, Greece.

08/10/2019 – 31/07/2020: Adjunct Lecturer at the School of Business Administration, Hellenic Open University, Greece.

01/10/2018 – 31/07/2019: Adjunct Lecturer at the School of Business Administration, Hellenic Open University, Greece.

20/10/2017 – 31/07/2018: Adjunct Lecturer at the School of Business Administration, Hellenic Open University, Greece.

26/02/2018 – 29/06/2018: Adjunct Lecturer at the Department of Business Administration (Grevena), Technological Educational Institute of Western Macedonia, Greece.

05/10/2017 – 09/02/2018: Adjunct Lecturer at the Department of Informatics & Telecommunications Engineering, University of Western Macedonia, Greece.

05/10/2017 – 09/02/2018: Adjunct Lecturer at the Department of Business Administration (Grevena), Technological Educational Institute of Western Macedonia, Greece.

05/10/2017 – 09/02/2018: Adjunct Lecturer at the Department of Business Administration (Kozani), Technological Educational Institute of Western Macedonia, Greece.

19/03/2013 – 19/07/2013: Adjunct Lecturer at the Department of Business Information Technologies, Technological Educational Institute of Western Macedonia, Greece.

08/10/2012 – 15/02/2013: Adjunct Lecturer at the Department of Business Information Technologies, Technological Educational Institute of Western Macedonia, Greece.

08/10/2012 – 15/02/2013: Adjunct Lecturer at the Department of Information Technology in Administration and Economy, Technological Educational Institute of Western Macedonia, Greece.

20/02/2012 – 29/06/2012: Adjunct Lecturer at the Department of Business Information Technologies, Technological Educational Institute of Western Macedonia, Greece.

03/10/2011 – 10/02/2012: Adjunct Lecturer at the Department of Business Information Technologies, Technological Educational Institute of Western Macedonia, Greece.

20/10/2011 – 13/01/2012: Teaching Assistant (with contract) at the Department of Applied Informatics, University of Macedonia.

08/03/2011 – 01/07/2011: Adjunct Lecturer at the General Sciences Department, Technological Educational Institute of Western Macedonia, Greece.

08/03/2011 – 01/07/2011: Adjunct Lecturer at the Department of Business Information Technologies, Technological Educational Institute of Western Macedonia, Greece.

04/10/2010 – 18/02/2011: Adjunct Lecturer at the Department of Business Information Technologies, Technological Educational Institute of Western Macedonia, Greece.

04/10/2010 – 18/02/2011: Adjunct Lecturer at the General Sciences Department, Technological Educational Institute of Western Macedonia, Greece.

09/09/2011 – 24/10/2011: Teacher in the course “Multimedia – Web Applications” in INEDIBIM (Institute for Lifelong Learning).

08/04/2011 – 30/05/2011: Teacher in the course “Multimedia – Web Applications” in INEDIBIM (Institute for Lifelong Learning).

18/03/2010 – 17/03/2011: Teaching Assistant (with contract) in the M.Sc. in Applied Informatics, at the University of Macedonia, Greece.

4.2. PROFESSIONAL EXPERIENCE

05/07/2017 – 15/10/2018: ICT Consultant, and freelance web, desktop and mobile app developer.

27/02/2015 – 15/10/2018: Postdoctoral Researcher at the Center for Advanced Process Decision-making (CAPD) laboratory, Carnegie Mellon University, Pittsburgh, USA, under the supervision of Professor Nick Sahinidis.

05/07/2016 – 05/08/2016: Participation in the research project “Modelling of Operations Research Problems” funded by VELTIO Greece LTD.

20/02/2008 – 31/12/2015: ICT Consultant, and freelance web, desktop and mobile app developer.

13/11/2014 – 31/10/2015: Participation in the research project “Unit of Innovation and Entrepreneurship” funded by National Funds.

01/06/2015 – 30/06/2015: Participation in the research project “Extension of atmospheric dispersion and consequence modelling in Decision Support Systems” funded by the European Union.

10/04/2013 – 31/12/2014: Participation in the research project “Digital guide of higher technological education professions” funded by the Greek Ministry of Education, Research and Religious Affairs.

20/01/2014 – 20/10/2014: Software engineer during my military duty for the Hellenic Army.

01/05/2014 – 31/07/2014: Participation in the research project “PREPARE” funded by the European Union.

01/12/2013 – 30/04/2014: Participation in the research project “HEALS – Health and Environment – wide Associations based on Large population Surveys” funded by the European Union.

24/07/2013 – 23/03/2014: Participation in the research project “Greek School Network Division Program” funded by the Greek Ministry of Education, Research and Religious Affairs.

01/03/2013 – 31/10/2013: Participation in the research project “OFFICAIR – On the reduction of health effects from combined exposure to indoor air pollutants in modern offices” funded by the European Union.

20/02/2013 – 19/06/2013: Participation in the research project “Cross-border vertical axes of entrepreneurship in support of youth and women” funded by National Funds of Greece and Bulgaria.

12/10/2012 – 11/04/2013: Participation in the research project “Greek School Network Division Program” funded by the Greek Ministry of Education, Research and Religious Affairs.

13/12/2011 – 12/07/2012: Participation in the research project “Unit of Innovation and Entrepreneurship” funded by National Funds.

01/09/2010 – 30/06/2011: Participation in the research project “Evaluation of the effectiveness and efficiency of networks with the use of operations research methods” funded by the Research Committee of the University of Macedonia, Greece.

16/02/2010 – 30/06/2010: Teacher in IEK Lagkada.

01/10/2009 – 22/01/2010: Teacher in IEK Lagkada.

16/02/2009 – 30/06/2009: Teacher in IEK Epanomis.

16/02/2009 – 30/06/2009: Teacher in IEK Neapolis.

02/10/2008 – 13/02/2009: Teacher in IEK Epanomis.

19/06/2008 – 30/09/2008: Software engineer for the development of computerization system of Student Internship Office, University of Macedonia, Greece.

15/04/2008 – 15/06/2008: Participation in the research project “Publication of educational material using Moodle” funded by National Funds.

01/02/2008 – 30/03/2008: Participation in the research project “Publication of educational material using Moodle” funded by National Funds.

01/08/2007 – 30/12/2007: Participation in the research project “Empowering eScience across the Mediterranean (EUMEDGRID)” funded by the European Union.

01/11/2006 – 28/02/2007: Internship at the department of Statistics and Research, Industrial Chamber of Thessaloniki.

01/02/2006 – 28/09/2006: Part-time employee at the National Hellenic Organization of Telecommunications (OTE).

5. COURSES TAUGHT

5.1. DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING, UNIVERSITY OF WESTERN MACEDONIA

Algorithms and Data Structures (Mandatory, 3rd semester): Academic years: 2018 – 2019, 2019 – 2020, 2020 – 2021, 2021 – 2022, 2022 – 2023 and 2023 – 2024.

Design and Analysis of Algorithms (Mandatory, 8th semester): Academic years: 2018 – 2019, 2019 – 2020, 2020 – 2021, 2021 – 2022, 2022 – 2023 and 2023 – 2024.

Discrete Mathematics (Mandatory, 2nd semester): Academic year: 2019 – 2020, 2020 – 2021, 2021 – 2022, 2022 – 2023 and 2023 – 2024.

Theory of Computation (Elective, 7th and 9th semester): Academic years: 2017 – 2018, 2018 – 2019, 2019 – 2020, 2020 – 2021, 2021 – 2022, 2022 – 2023 and 2023 – 2024.

Databases (Mandatory, 6th semester): Academic year: 2019 – 2020.

Mathematical Modelling and Numerical Analysis (Mandatory, 4th semester): Academic year: 2018 – 2019.

5.2. MASTER OF SCIENCE IN ADVANCED ENGINEERING OF ENERGY SYSTEMS, UNIVERSITY OF WESTERN MACEDONIA

Optimization of Energy Systems (Mandatory, 1st semester): Academic years: 2020 – 2021, 2021 – 2022, 2022 – 2023 and 2023 – 2024.

5.3. MASTER OF SCIENCE IN GAMING AND MULTIMEDIA APPLICATION DEVELOPMENT, UNIVERSITY OF WESTERN MACEDONIA

Algorithmic Thinking (Mandatory, 1st semester): Academic years: 2022 – 2023 and 2023 – 2024.

5.4. MASTER OF SCIENCE IN DIGITAL HEALTH & HEALTH MANAGEMENT, UNIVERSITY OF WESTERN MACEDONIA

Introduction in Artificial Intelligence (Mandatory, 2nd semester): Academic year: 2023 – 2024.

5.5. SCHOOL OF BUSINESS ADMINISTRATION, HELLENIC OPEN UNIVERSITY

Quantitative Methods (Mandatory, 1st year): Academic years: 2017 – 2018, 2018 – 2019, 2019 – 2020, 2020 – 2021, 2021 – 2022, 2022 – 2023 and 2023 – 2024.

5.6. DEPARTMENT OF BUSINESS ADMINISTRATION (GREVENA), TECHNOLOGICAL EDUCATIONAL INSTITUTE OF WESTERN MACEDONIA

Databases I (Mandatory, 5th semester): Academic year: 2017 – 2018.

Information Systems Security (Mandatory, 6th semester): Academic year: 2017 – 2018.

5.7. DEPARTMENT OF BUSINESS ADMINISTRATION (KOZANI), TECHNOLOGICAL EDUCATIONAL INSTITUTE OF WESTERN MACEDONIA

Introduction to Informatics (Mandatory, 1st semester): Academic year: 2017 – 2018.

5.8. DEPARTMENT OF BUSINESS INFORMATION TECHNOLOGIES, TECHNOLOGICAL EDUCATIONAL INSTITUTE OF WESTERN MACEDONIA

Basic Principles of Programming (Mandatory, 2nd semester): Academic year: 2010 – 2011.

Data Structures and Files (Mandatory, 2nd semester): Academic years: 2010 – 2011, 2011 – 2012.

Programming (Mandatory, 3rd semester): Academic years: 2010 – 2011, 2012 – 2013.

Object Oriented Programming (Mandatory, 5th semester): Academic year: 2011 – 2012.

Data Warehouses and Data Mining (Mandatory, 6th semester): Academic year: 2012 – 2013.

Web-based Applications (Mandatory, 7th semester): Academic year: 2012 – 2013.

5.9. DEPARTMENT OF INFORMATION TECHNOLOGY IN ADMINISTRATION AND ECONOMY, TECHNOLOGICAL EDUCATIONAL INSTITUTE OF WESTERN MACEDONIA

Multimedia Applications (Mandatory, 5th semester): Academic year: 2012 – 2013.

5.10. GENERAL SCIENCES DEPARTMENT, TECHNOLOGICAL EDUCATIONAL INSTITUTE OF WESTERN MACEDONIA

Computers I (Mandatory, 1st semester): Academic year: 2010 – 2011.

Computers II (Mandatory, 2nd semester): Academic year: 2010 – 2011.

5.11. TEACHING ASSISTANT

5.11.1. M.SC. IN APPLIED INFORMATICS, UNIVERSITY OF MACEDONIA

Programming: (Mandatory, 1st semester), Academic year: 2011 – 2012.

Web Programming: (Elective, 2nd semester), Academic year: 2009 – 2010, 2010 – 2011.

5.11.2. DEPARTMENT OF APPLIED INFORMATICS, UNIVERSITY OF MACEDONIA

Algorithms in C: (Mandatory, 1st semester), Academic year: 2010 – 2011.

Structural Programming: (Mandatory, 1st semester), Academic year: 2010 – 2011.

Data Structures: (Mandatory, 2nd semester), Academic years: 2010 – 2011, 2011 – 2012.

Introduction to the Design and Analysis of Algorithms: (Mandatory, 2nd semester), Academic year: 2010 – 2011.

5.12. INSTRUCTOR IN SEMINARS

September 2011 – October 2011 (50 hours): Teacher in the course “Multimedia – Web Applications” in INEDIBIM (Institute for Lifelong Learning).

April 2011 – May 2011 (50 hours): Teacher in the course “Multimedia – Web Applications” in INEDIBIM (Institute for Lifelong Learning).

5.13. STUDENT SUPERVISION

5.13.1. Supervision of PhD Students

I currently supervise 3 PhD students at the Department of Electrical and Computer Engineering, University of Western Macedonia:

- 5.13.1.1. 11/2023 – today: Panteleimon Iosif, “*Constraint programming for facility location problems*”, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.1.2. 06/2020 – today: Xristos Krallis, “*Optimization algorithms for machine learning*”, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.1.3. 12/2019 – today: Emmanouil Karantoumanis, “*Optimization algorithms for black-box problems*”, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.

5.13.2. Supervision of Undergraduate Students

I supervised 34 diploma theses at the Department of Electrical and Computer Engineering, University of Western Macedonia, two bachelor theses at the Department of Business Information Technologies, Technological Educational Institute of Western Macedonia and one bachelor thesis at the Department of Information Technology in Administration and Economy, Technological Educational Institute of Western Macedonia.

- 5.13.2.1. Kyrizaki, A. (2023). *Algorithms for detecting items in encrypted images*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.2. Sygkounas, I. (2023). *Algorithms for solving combinatorial games*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.3. Tsikitikou, A. (2023). *Combinatorial optimization algorithms for facility location problems*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.4. Tsekani, M. (2023). *Machine learning algorithms in anomaly detection for predictive maintenance in industrial applications*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.5. Konstas, M. (2023). *Reinforcement learning algorithms for the bin packing problem*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.6. Makris, N. (2023). *Weight initialization algorithms in neural networks*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.7. Grammenos, A. (2022). *Optimization of building energy systems*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.8. Pavlidis, C. (2022). *Comparison of job scheduling algorithms*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.9. Chatzianagnostou, D. (2022). *Comparison of outlier detection methods*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.

- 5.13.2.10. Dimitriou, A. (2022). *Reinforcement learning algorithms for racing games*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.11. Iakovakis, N. (2022). *Comparison of surrogate-based methods*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.12. Zounos, D. (2022). *Auto-tuning software parameters*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.13. Salakos, S. (2022). *Analysis and comparison of data structures for database indexing*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.14. Kano, M. (2022). *Comparison of string sorting algorithms*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.15. Kryos, D. (2022). *Development and computational comparison of algorithms for the solution of the cutting stock problem*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.16. Kypriotis, Z. (2022). *Machine learning algorithms for labelling images*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.17. Lamprou, K. (2022). *Development and computational comparison of algorithms for the solution of the cutting stock problem*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.18. Tsakiroglou, C. (2021). *Machine learning algorithms for the solution of combinatorial optimization problems*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.19. Vafeiadou, A. (2021). *Development and computational comparison of algorithms for the solution of the assignment problem*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.20. Trakos, D. (2021). *Machine learning algorithms for anomaly detection in mobile devices*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.21. Tsakiris, G. (2021). *Reinforcement learning algorithms for the facility location problem*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.22. Mantzari, Z. (2021). *Comparison of scaling techniques in machine learning problems*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.23. Kouras, A. (2021). *Comparison of machine learning algorithms in data derived from sensors*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.24. Skafidas, P. C. (2021). *Reinforcement learning algorithms for the vehicle routing problem*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.25. Kantriou, M. (2021). *Data preprocessing techniques in machine learning*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.26. Spathis, D. (2021). *Machine learning algorithms for modelling air quality*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.27. Balafas, V. (2021). *Machine learning algorithms for object recognition*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.

- 5.13.2.28. Gabrielidis, T. (2021). *Machine learning algorithms for face recognition*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.29. Tsakmakis, D. (2021). *Development and computational comparison of algorithms for the solution of the facility location problem*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.30. Krallis, C. (2020). *Machine learning methods for detecting bad smells in software systems*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.31. Theoharis, N. (2019). *Computational study of algorithms for the vehicle routing problem*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.32. Karantoumanis, E. (2019). *Prediction of energy consumption in cloud computing*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.33. Kyriakidis, A. (2019). *Prediction of energy consumption in data centers*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.34. Fotopoulou, A. (2019). *Computational study of algorithms for the traveling salesman problem*. Department of Electrical and Computer Engineering, Faculty of Engineering, University of Western Macedonia.
- 5.13.2.35. Zekentes, G. (2013). *Analysis, design and implementation of a web and mobile application using Joomla*. Department of Information Technology in Administration and Economy, Technological Educational Institute of Western Macedonia.
- 5.13.2.36. Kotermager, C. (2013). *Development of an online hotel booking system using Java and MySQL*. Department of Business Information Technologies, Technological Educational Institute of Western Macedonia.
- 5.13.2.37. Papadopoulos, N. C. (2013). *Comparison of image editing software*. Department of Business Information Technologies, Technological Educational Institute of Western Macedonia.

5.13.3. Member of Advisory Committees of PhD Students

I am/was a member of the Advisory Committees (3 members) of seven PhD Students at the Department of Electrical and Computer Engineering, University of Western Macedonia and two PhD Students at the Department of Mechanical Engineering, University of Western Macedonia.

- 5.13.3.1. 12/2022 – today: Dimitrios Theodorou, «*Data driven artificial intelligence, optimisation techniques and applications for smart and sustainable development*», Supervisor: Malamati Louta, Department of Electrical & Computer Engineering, University of Western Macedonia.
- 5.13.3.2. 02/2022 – today: Vasileios Kilis, «*Optimal design of building energy systems*», Supervisor: Georgios Panaras, Department of Mechanical Engineering, University of Western Macedonia.
- 5.13.3.3. 12/2021 – today: Evaggelos Tshipis, «*Intelligent decision support system for emergency response exploiting artificial intelligence techniques and operational research tools*», Supervisor: Malamati Louta, Department of Electrical & Computer Engineering, University of Western Macedonia.
- 5.13.3.4. 03/2021 – today: Vasileios Mpalafas, «*Constraint acquisition for optimization problems in data centers*», Supervisor: Konstantinos Stergiou, Department of Mechanical Engineering, University of Western Macedonia.

- 5.13.3.5. 10/2020 – today: Leonidas Zouloumis, «*Optimal design of control systems for buildings*», Supervisor: Georgios Panaras, Department of Mechanical Engineering, University of Western Macedonia.
- 5.13.3.6. 06/2020 – today: Vasileios Alexandris, «*New approach to neuronal mechanical translation of encoder decoder architecture with attention*», Supervisor: Nikolaos Asimopoulos, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.3.7. 06/2020 – today: Georgios Patoulidis, «*Requirement analysis and development of new mechanisms of blockchain technology in the field of health management with the main goal of eliminating the integrity and privacy of a large number (big data) of patients and secure storage and retrieval of processes data*», Supervisor: Nikolaos Asimopoulos, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.3.8. 12/2019 – today: Konstantinos Kyropoulos, «*Procedures for developing systems for remote crop monitoring*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.3.9. 05/2019 – 11/2023: Nikolaos Baras, «*Optimization algorithms for robotic applications*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.

5.13.4. Member of PhD Theses Review Committees

I am/was a member of the PhD Thesis Review Committees of three Phd Theses at the Department of Electrical & Computer Engineering, University of Western Macedonia and two Phd Theses at the Department of Applied Informatics, University of Macedonia.

- 5.13.4.1. 11/2023. Nikolaos Baras, «*Optimization algorithms for robotic applications*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.4.2. 05/2022. Sofia Voulgaropoulou, «*Computational complexity analysis of linear optimization algorithms*», Supervisor: Nikolaos Samaras, Department of Applied Informatics, University of Macedonia.
- 5.13.4.3. 05/2022: Christos Salis, «*Efficient computational methods for the solution of electromagnetic problems with uncertainties*», Supervisor: Theodoros Zygiridis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.4.4. 11/2021: Dimosthenis Tsouros, «*Techniques for learning constraint satisfaction problems with applications in telecommunications*», Supervisor: Kostas Stergiou, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.4.5. 07/2019 – today. Themistoklis Glavelis, «*Design and development of a hybrid mathematical programming algorithm*», Supervisor: Nikolaos Samaras, Department of Applied Informatics, University of Macedonia.

5.13.5. Member of Bachelor/Master Theses Review Committees

I was a member of the Master Thesis Review Committees of 54 Master Theses at the Department of Electrical and Computer Engineering, University of Western Macedonia, 3 Master Theses at the Department of Mechanical Engineering, University of Western Macedonia, and 4 Master Theses of the MSc in Advanced Engineering of Energy Systems, Department of Mechanical Engineering, University of Western Macedonia:

- 5.13.5.1. 10/2023: Giannakidis, G. «*Local search for the p-dispersion with distance constraints problem*», Supervisor: Konstantinos Stergiou, Department of Electrical and Computer Engineering, University of Western Macedonia.

- 5.13.5.2. 10/2023: Mimou, A. «*Brain-computer interface development using a wearable electroencephalogram*», Supervisor: Markos Tsipouras, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.3. 10/2023: Sarantaridis, D. «*Development of an intelligent bed data platform*», Supervisor: Markos Tsipouras, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.4. 10/2023: Dialesiotis, S. «*A literature review on smart cars and autonomous driving in public transport in Europe and Greece*», Supervisor: Georgios Frangkoulis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.5. 10/2023: Akritidou, E. «*Implementation of visual IT helpdesk with chatbot to handle requests within UoWM*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.6. 10/2023: Christopoulou, A. «*Developing a data visualization tool for presenting software development data*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.7. 10/2023: Delioglani, K. «*Development of algorithms for evaluating open data for IoT system with machine learning techniques*», Supervisor: Malamati Louta, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.8. 10/2023: Katharopoulos, T. «*Integration of Decision Support Systems (DSS) for fire management in a Geographic Information System (GIS)*», Supervisor: Malamati Louta, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.9. 10/2023: Tsihlikidou, P. «*Timeless change of land cover in the prefecture of Kozani in the last twenty years, with the use of satellite images and the Google Earth Engine platform*», Supervisor: Malamati Louta, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.10. 10/2023: Tezas, H. «*Timeless change of land cover in the prefecture of Kozani in the last twenty years, with the use of satellite images and the Google Earth Engine platform*», Supervisor: Malamati Louta, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.11. 07/2023: Iliakis, D. «*Investigating winery energy efficiency using operational data*», Supervision: Georgios Panaras, MSc in Advanced Engineering of Energy Systems, Department of Mechanical Engineering, University of Western Macedonia.
- 5.13.5.12. 07/2023: Zafeiridou, S. «*Investigation of energy efficiency and implementation of optimization methods on a school building complex*», Supervision: Georgios Panaras, MSc in Advanced Engineering of Energy Systems, Department of Mechanical Engineering, University of Western Macedonia.
- 5.13.5.13. 07/2023: Mouratidou, C. «*Development of educational games for preschool children (letters and numbers)*», Supervisor: Vasileios Lazaridis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.14. 03/2023: Iosif, P. «*Solving the p-center problem with constraints using constraint programming*», Supervisor: Kostas Stergiou, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.15. 03/2023: Latsis, N. «*Design and implementation of tangible computing cubes for learning basic computer concepts to children*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.16. 03/2023: Manikas, V. «*Experimental characterization of the performance of heating radiation units*», Supervision: Georgios Panaras, Department of Mechanical Engineering, University of Western Macedonia.

- 5.13.5.17.11/2022: Zeliou, A. «*Solving sudoka problems through constraint propagation*», Supervisor: Kostas Stergiou, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.18.11/2022: Stoikoudi, A. «*Implementation of machine learning algorithms in precision agriculture data*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.19.11/2022: Iosifidis, D. «*Penetration testing in critical infrastructures*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.20.11/2022: Grigoriadou, S. «*Deep learning-based intrusion and prevention system for the Internet of Things*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.21.11/2022: Maragkos, G. «*Development of a service for applying sentiment analysis methods in the financial domain*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.22.11/2022: Pliaki, A. «*A survey on precision agriculture techniques in Europe*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.23.11/2022: Vlachos, P. «*Measurements of electromagnetic fields in interior spaces in telecommunication frequencies and optimization of the measurement parameters*», Supervisor: Theodoros Zytkiridis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.24.11/2022: Stavrotheodoros, A. «*Research project assessment information system*», Supervisor: Pantelis Aggelidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.25.11/2022: Toliou, M. «*Metamaterial applications in contemporary communication systems*», Supervisor: Theodoros Zytkiridis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.26.11/2022: Mpakas, P. «*Design and implementation of an IoT system for wireless energy control and measure*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.27.11/2022: Anagnostou, I. «*Implementation of small scale coding tasks on bountity*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.28.11/2022: Vomvas, P. «*Task allocation mechanism in mobile crowd sensing systems*», Supervisor: Malamati Louta, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.29.11/2022: Perros, K. «*Design and implementation of an information system for the creation and monitoring of personalized diet programs*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.30.07/2022: Kilis, G. «*Energy and environmental analysis of autonomous building energy system*», Supervision: Georgios Panaras, MSc in Advanced Engineering of Energy Systems, Department of Mechanical Engineering, University of Western Macedonia.
- 5.13.5.31.07/2022: Rarras, D. «*Programming an automated solver for the minesweeper game*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.32.07/2022: Nikolaidis, T. «*Curvature calculation methods for 3D point clouds*», Supervisor: Antonios Protopsaltis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.33.07/2022: Oikonomou, S. «*Traffic routing of critical infrastructure at the edges of the network*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.

- 5.13.5.34.07/2022: Nintziou, M. «*Using digital twin technology in intrusion traps to improve cybersecurity threat intelligence*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.35.07/2022: Iliadis, D. «*Development and evaluation of routing algorithms in the Internet of Things*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.36.07/2022: Chatzigiangkou, G. «*Estimation of flooded areas using sentinel-2 satellite images and open-source software*», Supervisor: Konstantinos Perrakis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.37.04/2022: Papadopoulos, G. «*Design of an energy system for regulating indoor climate in an office building*», Supervision: Georgios Panaras, MSc in Advanced Engineering of Energy Systems, Department of Mechanical Engineering, University of Western Macedonia.
- 5.13.5.38.03/2022: Strikos, Z. «*Technologies of Internet of Things in precision agriculture for crop and livestock farming*», Supervisor: Malamati Louta, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.39.03/2022: Georgatos, V. «*Data management information system and quality indicators*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.40.10/2021: Polymenidis, I. «*Parametric curve fitting of 2D point clouds using AI methods*», Supervisor: Antonios Protopsaltis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.41.10/2021: Nantzios, G. «*Design and implementation of a robotic arm assistant with voice interaction using machine vision*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.42.10/2021: Georgakas, G. «*Simulator development for SDN enabled IoT networks*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.43.07/2021: Terzi, A. «*Reuse opportunities in JavaScript applications*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.44.07/2021: Kontantaras, V. «*Web content accessibility for people with disabilities*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.45.07/2021: Mpountis, A. «*Algorithms for the construction and animation of articulated characters*», Supervisor: Antonios Protopsaltis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.46.02/2021: Seitanidis, I. «*Feasibility study of the investment in modern technologies for high precision agriculture in crocus crops*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.47.02/2021: Rodis, T. «*Analysis and design of a social networking platform for the management and sharing of clothes*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.48.02/2021: Chaschatzis, C. «*Evaluation of IoT energy saving algorithms in CupCarbon*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.49.10/2020: Kourtzelis, P. «*Cyber threat detection and response techniques for plug-in electrical vehicles*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.50.10/2020: Konstantakopoulos, D. «*Intrusion detection for the DNP3 protocol*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.

- 5.13.5.51.10/2020: Kladakis, E. «*Penetration testing in smart grids*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.52.10/2020: Manitsas, A. «*Simulation of routing protocols in wireless flying ad-hoc networks*», Supervisor: Panagiotis Sarigiannidis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.53.10/2020: Kilis, V. «*Optimization of multi energy systems for domestic hot water uses*», Supervision: Georgios Panaras, Department of Mechanical Engineering, University of Western Macedonia.
- 5.13.5.54.07/2020: Stavridis, E. «*Development of an automatic control algorithm in a boiler sequence*», Supervision: Georgios Panaras, Department of Mechanical Engineering, University of Western Macedonia.
- 5.13.5.55.07/2020: Michail, C. «*Visual field analysis using parallel processing*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.56.03/2020: Varnavas, L. «*Design and development of a website focused on affiliation and discovery of local hotspots hosting or organizing cultural events*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.57.03/2020: Papakis, G. P. «*Design and Implementation of an information system of a timetable management program*», Supervisor: Minas Dasygenis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.58.03/2020: Tegoulis, K. «*Mobile application for the projection of touristic interest spots*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.59.10/2019: Almaliotis, A. «*Management system for hotels*», Supervisor: Stamatia Bibi, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.60.07/2019: Katirdzidou, A. «*Simulation study of interaction between humans and wireless devices in next generation networks*», Supervisor: Theodoros Zygyridis, Department of Electrical and Computer Engineering, University of Western Macedonia.
- 5.13.5.61.03/2019: Baras, N. «*Optimal routing of unmanned vehicles in 3-dimensional environments*», Supervisor: Minas Dasygenis, Department of Informatics & Telecommunications Engineering, University of Western Macedonia.

6. RESEARCH/PROFESSIONAL ACTIVITY & MEMBERSHIPS

6.1. EDITORIAL BOARD MEMBERSHIP

- Editorial Board Member of Mathematical Programming Computation, Springer (<https://link.springer.com/journal/12532>) from 2019 until today.
- Editorial Board Member of Optimization and Engineering, Springer (<https://www.springer.com/journal/11081/editors>) from 2020 until today.
- Editorial Board Member of International Journal of Information Systems and Social Change, IGI Global (<https://www.igi-global.com/journal/international-journal-information-systems-social/1111>) from 2019 until today.
- Editorial Board Member of International Journal of Agricultural and Environmental Information Systems, IGI Global (<http://www.igi-global.com/journal/international-journal-agricultural-environmental-information/1160>) from 2016 until 2021.

6.2. CONFERENCE/WORKSHOP COMMITTEES

- 10th International Conference on Machine Learning, Optimization, and Data Science (LOD 2024), 22 – 25 September 2024, Castiglione della Pescaia, Tuscany, Italy (Program Committee Member).
- 9th International Conference on Machine Learning, Optimization, and Data Science (LOD 2023), 22 – 26 September 2023, Grasmere, Lake District, United Kingdom (Program Committee Member).
- 9th International Conference on Decision Support System Technology (ICDSST 2023), 30 May – 1 June 2023, Albi, France (Program Committee Member).
- 2023 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2023), 23 – 26 May 2023, Ontario, Canada (Program Committee Member).
- 8th International Online & Onsite Conference on Machine Learning, Optimization, and Data Science (LOD 2022), 18 – 22 September 2022, Siena, Italy (Program Committee Member).
- 2022 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2022), 18 – 21 July 2022, San Diego, California, USA (Program Committee Member).
- 16th Learning and Intelligent Optimization Conference (LION16), 5 – 10 June 2022, Milos, Greece (Program Committee Member).
- 8th International Conference on Decision Support System Technology (ICDSST 2022), 23 – 25 May 2022, Thessaloniki, Greece (Program Committee Member).
- 15th Learning and Intelligent Optimization Conference (LION15), 20 – 25 June 2021, Athens, Greece (Program Committee Member).
- 2021 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2021), 19 – 22 July 2021, Fairfax, Virginia, USA (Program Committee Member).
- 7th International Online & Onsite Conference on Machine Learning, Optimization, and Data Science (LOD 2021), 29 June – 2 July 2021, Grasmere, Lake District, United Kingdom (Program Committee Member).
- 7th International Conference on Decision Support System Technology (ICDSST 2021), 26 – 28 May 2021, Loughborough, United Kingdom (Program Committee Member).
- 6th International Conference on Machine Learning, Optimization, and Data Science (LOD 2020), 19 – 22 July 2020, Certosa di Pontignano, Siena – Tuscany, Italy (Program Committee Member).
- 6th International Conference on Decision Support System Technology (ICDSST 2020), 27 – 29 May 2020, Zaragoza, Spain (Program Committee Member).
- 9th Balkan Region Conference on Engineering and Business Education (BRCEBE 2019) and 12th International Conference on Engineering and Business Education (ICEBE 2019), 16 – 19 October 2019, Sibiu, Romania (Program Committee Member).
- 5th International Conference on Machine Learning, Optimization, and Data Science (LOD 2019), 10 – 13 September 2019, Certosa di Pontignano, Siena – Tuscany, Italy (Program Committee Member).
- 16th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2019), 4 – 7 June 2019, Thessaloniki, Greece (Organizing Committee Member, Sponsorship Chair).
- 5th International Conference on Decision Support System Technology (ICDSST 2019), 27 – 29 May 2019, Madeira, Portugal (Program Committee Member).
- 4th International Conference on Machine Learning, Optimization, and Data Science (LOD 2018), 13 – 16 September 2018, Volterra, Tuscany, Italy (Program Committee Member).
- 4th International Conference on Decision Support System Technology (ICDSST 2018), 22 – 25 May 2018, Heraklion, Greece (Organizing Committee Member, Program Committee Member).

- 10th International Conference on Engineering and Business Education (ICEBE 2017), 19 – 22 October 2017, Sibiu, Romania (Program Committee Member).
- 3rd International Conference on Decision Support System Technology (ICDSST 2017), 29 – 31 May 2017, Namur, Belgium (Program Committee Member).
- 2nd International Conference on Internet of Things and Cloud Computing (ICC 2017), 22 – 23 March 2017, Cambridge, United Kingdom (Program Committee Member).
- 2nd International Conference on Decision Support System Technology (ICDSST 2016), 23 – 25 May 2016, Plymouth, United Kingdom (Program Committee Member).
- 1st International Conference on Decision Support System Technology (ICDSST 2015), 27 – 29 May 2015, Belgrade, Serbia (Program Committee Member).

6.3. JOURNAL REFEREE

- AIMS Mathematics
- Annals of Mathematics and Artificial Intelligence
- Annals of Operations Research
- Applied Math
- Applied Sciences
- Applied Soft Computing
- Artificial Intelligence Review
- Asian Journal of Mathematics and Computer Research
- Big Data and Cognitive Computing
- British Journal of Mathematics & Computer Science
- Caspian Journal of Applied Sciences Research
- Chemical Engineering Research and Design
- Complexity
- Computational Optimization and Applications
- Computer-Aided Design
- Computers
- Computers & Chemical Engineering
- Energies
- Engineering Optimization
- Entropy
- Future Generation Computer Systems
- Fuzzy Sets & Systems
- Heliyon
- IEEE Access
- IEEE Communications Magazine
- IEEE Sensors
- IEEE Transactions on Engineering Management
- Industrial & Engineering Chemistry Research
- Information
- International Journal of Agricultural and Environmental Information Systems
- International Journal of Computational Intelligence Systems
- International Journal of Decision Support System Technology
- International Journal of Decision Support Systems
- International Journal of Information Technology Project Management
- International Journal of Information Systems and Social Change
- International Journal of Signal and Imaging Systems
- Journal of Business Ethics
- Journal of Decision Systems
- Journal of Environmental Management
- Journal of Global Optimization
- Journal of Parallel and Distributed Computing

- Kybernetes
- Mathematical Problems in Engineering
- Mathematical Programming Computation
- Mathematics
- Memories – Materials, Devices, Circuits and Systems
- Open Mathematics
- Operational Research
- Optimization Letters
- Optimization Methods & Software
- PeerJ Computer Science
- Processes
- Robotics and Autonomous Systems
- Quantitative Plant Biology
- Scientific Programming
- SoftwareX
- SpringerPlus
- Sustainability
- Sustainable Energy, Grids and Networks
- Symmetry
- Yugoslav Journal of Operations Research

6.4. EDITED BOOK REFEREE

- Springer Lecture Notes in Business Information Process on Decision Support Systems XI – Group Decision and Negotiation in the Era of Multimodal Interactions (LNBIP 478).
- Springer Lecture Notes in Business Information Process on Decision Support Systems XI – Decision Support Systems, Analytics and Technologies in Response to Global Crisis Management (LNBIP 414).
- Springer Lecture Notes in Business Information Process on Decision Support Systems X – Cognitive Decision Support Systems and Technologies (LNBIP 384).
- Springer Lecture Notes in Business Information Process on Decision Support Systems IX – Main Developments and Future Trends (LNBIP 348).
- Springer Lecture Notes in Business Information Process on Decision Support Systems VIII – Sustainable Data-Driven and Evidence-Based Decision Support (LNBIP 313).
- Springer Lecture Notes in Business Information Process on Decision Support Systems VII – Data, Information and Knowledge Visualisation in Decision Support Systems (LNBIP 282).
- Springer Integrated Series in Information Management (IS2) on Real-World Decision Support Systems: Case Studies.
- Springer Lecture Notes in Business Information Process on Decision Support Systems VI – Decision Support Systems Addressing Sustainability & Societal Challenges (LNBIP 250).
- Springer Lecture Notes in Business Information Process on Decision Support Systems V – Big Data Analytics for Decision Making (LNBIP 216).
- Springer Lecture Notes in Business Information Process on Decision Support Systems IV – Information and Knowledge Management in Decision Processes (LNBIP 221).
- Springer Lecture Notes in Business Information Process on Decision Support Systems III – Impact of Decision Support Systems for Global Environments (LNBIP 184).
- Springer Lecture Notes in Business Information Process on Decision Support Systems II – Recent Developments Applied to DSS Network Environments (LNBIP 164).

- Springer Lecture Notes in Mathematics & Statistics 31 on Optimization Theory, Decision Making, and Operational Research Applications.

6.5. CONFERENCE/WORKSHOP REFEREE

- 10th International Conference on Machine Learning, Optimization, and Data Science (LOD 2024), 22 – 25 September 2024, Castiglione della Pescaia, Tuscany, Italy.
- 9th International Conference on Machine Learning, Optimization, and Data Science (LOD 2023), 22 – 26 September 2023, Grasmere, Lake District, United Kingdom.
- 9th International Conference on Decision Support System Technology (ICDSST 2023), 30 May – 1 June 2023, Albi, France.
- 2023 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2023), 23 – 26 May 2023, Ontario, Canada.
- 8th International Online & Onsite Conference on Machine Learning, Optimization, and Data Science (LOD 2022), 18 – 22 September 2022, Siena, Italy.
- 2022 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2022), 18 – 21 July 2022, San Diego, California, USA.
- 16th Learning and Intelligent Optimization Conference (LION16), 5 – 10 June 2022, Milos, Greece.
- 8th International Conference on Decision Support System Technology (ICDSST 2022), 23 – 25 May 2022, Thessaloniki, Greece.
- International Symposium on Combinatorial Optimization (ISCO 2022), 18 – 20 May 2022, Online.
- 2021 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2021), 19 – 22 July 2021, Fairfax, Virginia, USA.
- 15th Learning and Intelligent Optimization Conference (LION15), 20 – 25 June 2021, Athens, Greece.
- 7th International Online & Onsite Conference on Machine Learning, Optimization, and Data Science (LOD 2021), 29 June – 2 July 2021, Grasmere, Lake District, United Kingdom.
- 7th International Conference on Decision Support System Technology (ICDSST 2021), 26 – 28 May 2021, Loughborough, United Kingdom.
- 6th International Conference on Machine Learning, Optimization, and Data Science (LOD 2020), 19 – 22 July 2020, Certosa di Pontignano, Siena – Tuscany, Italy.
- 6th International Conference on Decision Support System Technology (ICDSST 2020), 27 – 29 May 2020, Zaragoza, Spain.
- 5th International Conference on Machine Learning, Optimization, and Data Science (LOD 2019), 10 – 13 September 2019, Certosa di Pontignano, Siena – Tuscany, Italy.
- 5th International Conference on Decision Support System Technology (ICDSST 2019), 27 – 29 May 2019, Madeira, Portugal.
- 4th International Conference on Machine Learning, Optimization, and Data Science (LOD 2018), 13 – 16 September, Volterra, Tuscany, Italy.
- 4th International Conference on Decision Support System Technology (ICDSST 2018), 22 – 25 May 2018, Heraklion, Greece.
- International Symposium on Big Data Management and Analytics (BIDMA 2017), 17 – 18 April, Calgary, Canada.
- 3rd International Conference on Decision Support System Technology (ICDSST 2017), 29 – 31 May, Namur, Belgium.
- 2nd International Conference on Internet of Things and Cloud Computing (ICC 2017), 22 – 23 March, Cambridge, United Kingdom.
- 2nd International Conference on Decision Support System Technology (ICDSST 2016), 23 – 25 May, Plymouth, United Kingdom.

- International Symposium on Big Data Management and Analytics (BIDMA 2016), 25 – 26 April, Calgary, Canada.
- International Workshop on Machine learning, Optimization and Big Data (MOD 2015), 21 – 24 July, Taormina - Sicily, Italy.
- 1st International Conference on Decision Support System Technologies (ICDSST 2015), 27 – 29 May, Belgrade, Serbia.
- EWG-DSS Thessaloniki 2013 Workshop, 29 – 31 May, Thessaloniki, Greece.
- 1st International Symposium & 10th Balkan Conference on Operational Research (BALCOR 2011), 22 – 25 September, Thessaloniki, Greece.

6.6. SCIENTIFIC MEMBERSHIP

- IEEE Member (<https://www.ieee.org/>).
- INFORMS Computing Society Member (<https://www.informs.org/Community/ICS>).
- SIAM Activity Group on Computational Science and Engineering (SIAG/CSE) Member (<http://www.siam.org/activity/cse/>).
- SIAM Activity Group on Optimization (SIAG/OPT) Member (<https://www.siam.org/activity/optimization/>).
- ACM Special Interest Group on Algorithms and Computation Theory Member (<http://www.sigact.org/>).
- ACM Special Interest Group on High Performance Computing Member (<http://www.sighpc.org/>).
- EURO Working Group on Continuous Optimization (EUROPT) Member (<http://europt.iam.metu.edu.tr/>).
- EURO Working Group on Decision Support Systems (EWG-DSS) Member (<https://ewgdss.wordpress.com/>).
- HELORS (HELlenic Operations Research Society) Member (www.eeee.org.gr).

6.7. RESEARCH PROJECTS

July 2023 – September 2025: Participation in the research project «Smart Cities Ecosystem in Greece 2.0» funded by the National Recovery and Resilience Plan Greece 2.0.

June 2023 – November 2023: Participation in the research project «Intelligent Platform for Supporting Diagnosis/ Staging in Biopsies using Deep Learning – Deep in Biopsies» funded by the European Regional Development Fund and Greek national funds.

February 2023 – December 2023: Scientific coordinator in the research project «Optimization algorithms for minimizing transfer costs to cloud computing services» funded by skie.io, Charlotte, USA.

January 2022 – December 2022: Scientific coordinator in the research project «Optimization algorithms for minimizing transfer costs to cloud computing services» funded by skie.io, Charlotte, USA.

March 2022 – July 2022: Scientific coordinator in the research project «Optimization of heat exchangers» funded by funded by Mitsubishi Electric Research Laboratories, Massachusetts, USA.

April 2022 – June 2022: Participation in the research project «European human biomonitoring initiative» funded by the European Union.

July 2021 – October 2022: Participation in the research project «Optimization of Kozani's district heating distribution network with the use of smart systems through simulation and

optimization of thermal substations of final consumers» funded by the Municipal Water Supply and Sewerage Company of Kozani, Greece.

May 2021 – July 2022: Participation in the research project «Actions in support of administrative and academic activities of the University of Western Macedonia» funded by the European Regional Development Fund and Greek national funds.

April 2021 – May 2023: Participation in the research project «New technologies and innovative approaches in relation to AgriFood and Tourism for the enhancement of regional excellence in Western Macedonia» funded by the European Regional Development Fund.

January 2021 – October 2022: Scientific coordinator in the research project «Pilot smart city applications for the Municipality of Kozani» funded by the Municipality of Kozani, Greece.

March 2021 – August 2021: Participation in the research project «Forecast-Optimize-Manage investments with machine learning techniques» funded by the European Regional Development Fund and Greek national funds.

October 2020 – December 2022: Participation in the research project «Intelligent IoT management platform for treated wastewater reuse for agricultural use» funded by the European Regional Development Fund and Greek national funds.

February 2019 – July 2020: Scientific coordinator in the research project «Development, implementation and application of advanced mathematical programming algorithms (linear, integer, nonlinear, and derivative-free optimization)» funded by Carnegie Mellon University, Pittsburgh, USA.

March 2016 – October 2018: Participation in the research project «Heat exchangers optimization» funded by Mitsubishi Electric Research Laboratories, Massachusetts, USA.

July 2016 – September 2016: Participation in the research project «Modelling of Operations Research Problems» funded by VELTIO GREECE LTD.

June 2015 – May 2016: Participation in the research project «Chemical R&D analytics» funded by SABIC, Texas, USA.

May 2015 – May 2019: Management Committee Member of the COST Action TD1409 «Mathematics for Industry Network» funded by European Union.

January 2012 – January 2016: Management Committee Substitute Member of the COST Action ES1101 «Harmonizing Global Biodiversity Modelling» funded by the European Union.

November 2014 – October 2015: Participation in the research project «Unit of Innovation and Entrepreneurship» funded by National funds.

June 2015: Participation in the research project «Extension of atmospheric dispersion and consequence modelling in Decision Support Systems» funded by the European Union.

April 2013 – December 2014: Participation in the research project «Digital guide of higher technological education professions» funded by the Greek Ministry of Education, Research and Religious Affairs.

May 2014 – July 2014: Participation in the research project «PREPARE» funded by the European Union.

December 2013 – April 2014: Participation in the research project «HEALS – Health and Environment – wide Associations based on Large population Surveys» funded by the European Union.

July 2013 – March 2014: Participation in the research project «Greek School Network Division Program» funded by the Greek Ministry of Education, Research and Religious Affairs.

March 2013 – October 2013: Participation in the research project «OFFICAIR – On the reduction of health effects from combined exposure to indoor air pollutants in modern offices» funded by the European Union.

February 2013 – June 2013: Participation in the research project «Cross-border vertical axes of entrepreneurship in support of youth and women» funded by National funds of Greece and Bulgaria.

October 2012 – April 2013: Participation in the research project «Greek School Network Division Program» funded by the Greek Ministry of Education, Research and Religious Affairs.

December 2011 – July 2012: Participation in the research project «Unit of Innovation and Entrepreneurship» funded by National funds.

September 2010 – June 2011: Participation in the research project «Evaluation of the effectiveness and efficiency of networks with the use of operations research methods» funded by the Research Committee of the University of Macedonia.

June 2008 – September 2008: Participation in the project «Development of a computerization system of Student Internship Office» funded by the Research Committee of the University of Macedonia.

April 2008 – June 2008: Participation in the research project “Publication of educational material using Moodle” funded by National Funds.

February 2008 – March 2008: Participation in the research project “Publication of educational material using Moodle” funded by National Funds.

August 2007 – December 2007: Participation in the research project «Empowering eScience across the Mediterranean (EUMEDGRID)» funded by the European Union.

6.8. RESEARCH INTERESTS

- Optimization
- Mathematical Programming
- Algorithms
- Operations Research
- Machine Learning
- Decision Support Systems
- Scientific Computing
- Parallel and Distributed Computing

7. PUBLICATIONS

7.1. BOOKS/THESES

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[B1] Ploskas, N. (2007). *Software development for computational experiments*. Bachelor Thesis, Department of Applied Informatics, University of Macedonia.

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- [J24] Balafas, V., Karantoumanis, E., Louta, M., Ploskas, N. (2023). Machine learning and deep learning for plant disease classification and detection, *IEEE Access*, 11, pp. 114352-114377. DOI: <https://doi.org/10.1109/ACCESS.2023.3324722>.
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- [J16] Sauk, B., Ploskas, N., Sahinidis, N. V. (2020). GPU parameter tuning for tall and skinny dense linear least squares problems. *Optimization Methods and Software*, 35 (3), pp. 638 – 660. DOI: <https://doi.org/10.1080/10556788.2018.1527331>.
- [J15] Ploskas, N., Zhang, T., Sahinidis, N. V., Castillo, F., Sankaranarayanan, K. (2019). Evaluating and ranking patents with multiple criteria: How many criteria are required to find the most promising patents?. *Computers & Chemical Engineering*, 123, pp. 317 – 330. DOI: <https://doi.org/10.1016/j.compchemeng.2019.01.011>.
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- [J3] Kostoglou, V., Ploskas, N., Vassilakopoulos, M., Tsantopoulou, V. (2014). Analysis and design of a web-based decision support system for choosing higher education studies. *Yugoslav Journal of Operations Research*, 24(3), pp. 399 – 414. DOI: <http://doi.org/10.2298/YJOR140411025K>.
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7.5. INTERNATIONAL CONFERENCES WITH PROCEEDINGS

- [C27] Kilis, V., Paschalidis, N., Ploskas, N., Panaras, G. (2023). Energy hub optimization on residential building case. In *Proceedings of the 4th International Conference on Environmental Design (ICED2023)*, 20 – 22 October, Athens, Greece.

- [C26] Zouloumis, L., Ploskas, N., Panaras, G. (2023). Towards a multi-energy multi-user monitoring and decision-making tool for district heating networks. In *Proceedings of the 7th International Conference on Renewable Energy Sources and Energy Efficiency – Energy Security (RESEE 2023)*, 12 – 14 October, Nicosia, Cyprus.
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- [C24] Kilis, V., Ploskas, N., Panaras, G. (2023). Multi-criteria optimization for the decision making in building envelope thermal design. In *Proceedings of the Sustainable Built Environments (SBE23)*, 22 – 24 March, Thessaloniki, Greece.
- [C23] Karantoumanis, E., Balafas, V., Louta, M., Ploskas, N. (2022). Computational comparison of image preprocessing techniques for plant diseases detection. In *Proceedings of the 7th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM 2022)*, 23 – 25 September, Ioannina, Greece.
- [C22] Balafas, V., Zouloumis, L., Ploskas, N., Panaras, G. (2022). A decision support system for monitoring and control of thermal substations in district heating networks. In *Proceedings of the 7th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM 2022)*, 23 – 25 September, Ioannina, Greece.
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7.8. INVITED/OTHER TALKS/POSTERS

[O26] Ploskas, N. (2024). Artificial Intelligence in Education. *Invited speaker at the Conference Language, Education, and Artificial Intelligence*, 10 – 12 May, Rethymno, Greece.

[O25] Ploskas, N., Laughman, C., Raghunathan, A., Sahinidis, N. (2019). Heat exchanger circuitry design and optimization. *Poster presentation at the Center for Advanced Process Decision-Making 2019 Annual Meeting*, Center for Advanced Process Decision-Making, Carnegie Mellon University, 11 – 12 March, Pittsburgh, USA.

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[O23] Ploskas, N., Laughman, C., Raghunathan, A., Sahinidis, N., (2018). Optimization of circuitry arrangements for heat exchangers. *Poster Presentation at the Enterprise-Wide Optimization Collaborative Project Fall 2018 Meeting*, Center for Advanced Process Decision-Making, Carnegie Mellon University, 1 – 2 November 2018, Pittsburgh, PA, USA.

[O22] Sauk, B., Ploskas, N., Sahinidis, N. (2018). GPU parameter autotuning for linear least squares problems. *Poster presentation at the Center for Advanced Process Decision-Making 2018 Annual Meeting*, Center for Advanced Process Decision-Making, Carnegie Mellon University, 12 – 13 March, Pittsburgh, PA, USA.

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- [O20] Ploskas, N., Laughman, C., Raghunathan, A., Sahinidis, N., (2017). How mathematical modelling helps Mitsubishi improve heat exchangers. *Invited Talk at the Industry-Academia Workshop on Solving Pressing Industrial Challenges with Mathematical Modelling*, Organized by the Cyprus Chamber of Commerce and Industry, Cyprus University of Technology, Mathematics for Industry Network (MI-NET, COST Action TD1409), and British High Commission in Cyprus, 27 October, Nicosia, Cyprus.
- [O19] Ploskas, N., Laughman, C., Raghunathan, A., Sahinidis, N., (2017). Optimization of circuitry arrangements for heat exchangers using derivative-free optimization. *Poster Presentation at the Enterprise-Wide Optimization Collaborative Project Fall 2017 Meeting*, Center for Advanced Process Decision-Making, Carnegie Mellon University, 20 – 21 September 2017, Pittsburgh, PA, USA.
- [O18] Ploskas, N., Laughman, C., Raghunathan, A., Sahinidis, N., (2017). Optimization of circuitry arrangements for heat exchangers. *Oral Presentation at the Enterprise-Wide Optimization Collaborative Project Spring 2017 Meeting*, Center for Advanced Process Decision-Making, Carnegie Mellon University, 14 – 15 March 2017, Pittsburgh, PA, USA.
- [O17] Ploskas, N., Samaras, N., Sahinidis, N. (2017). An advanced starting basis for the simplex algorithm. *Poster Presentation at the Center for Advanced Process Decision-Making 2017 Annual Meeting*, Center for Advanced Process Decision-Making, Carnegie Mellon University, 13 – 14 March 2017, Pittsburgh, PA, USA.
- [O16] Sauk, B., Ploskas, N., Sahinidis, N. (2017). GPU parameter tuning for dense linear least squares problems. *Poster Presentation at the Center for Advanced Process Decision-Making 2017 Annual Meeting*, Center for Advanced Process Decision-Making, Carnegie Mellon University, 13 – 14 March 2017, Pittsburgh, PA, USA.
- [O15] Ploskas, N., Samaras, N., Sahinidis, N. (2017). An advanced starting basis for the simplex algorithm. *Oral Presentation at the Department of Chemical Engineering, Carnegie Mellon University*, 21 February, Pittsburgh, PA, USA.
- [O14] Ploskas, N., Zhang, T., Sahinidis, N., Castillo, F., Sankaranarayanan, K. (2017). A decision support system for chemical R&D analytics and portfolio optimization. *Oral Presentation at the Department of Chemical Engineering, Carnegie Mellon University*, 21 February, Pittsburgh, PA, USA.
- [O13] Sauk, B., Ploskas, N., Sahinidis, N. (2016). Solving dense linear least squares problems with graphics processing units. *Poster presentation at the 38th Annual ChEGSA Symposium*, Carnegie Mellon University, 20 – 21 October, Pittsburgh, PA, USA.
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- [O10] Ploskas, N., Zhang, T., Sahinidis, N., Castillo, F., Sankaranarayanan, K. (2016). Evaluating and ranking patents with multiple criteria. A case study in chemical R&D analytics. *Oral presentation at the Enterprise-Wide Optimization Collaborative Project Spring 2016 Meeting*, Center for Advanced Process Decision-Making, Carnegie Mellon University, 8 – 9 March, Pittsburgh, USA.
- [O9] Ploskas, N., Zhang, T., Sahinidis, N., Castillo, F., Sankaranarayanan, K. (2016). Evaluating and ranking patents with multiple criteria. A case study in chemical R&D analytics. *Poster presentation at the Center for Advanced Process Decision-Making 2016*

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[O8] Ploskas, N., Zhang, T., Sahinidis, N., Castillo, F., Sankaranarayanan, K. (2016). Evaluating and ranking patents with multiple criteria. A case study in chemical R&D analytics. *Oral presentation at the Department of Chemical Engineering, Carnegie Mellon University*, 26 February, Pittsburgh, PA, USA.

[O7] Ploskas, N. (2016). An advanced basis selection method for the simplex algorithm. *Oral presentation at the Department of Chemical Engineering, Carnegie Mellon University*, 22 January, Pittsburgh, PA, USA.

[O6] Ploskas, N. (2015). Demonstration on the use of Moodle. How to create self-grading programming assignments. *Oral presentation at the Department of Chemical Engineering, Carnegie Mellon University*, 18 December, Pittsburgh, PA, USA.

[O5] Ploskas, N. (2015). An advanced starting basis for the simplex algorithm. *Oral Presentation at the Department of Chemical Engineering, Carnegie Mellon University*, 31 October 2016, Pittsburgh, USA.

[O4] Ploskas, N., Zhang, T., Sahinidis, N., Castillo, F., Sankaranarayanan, K. (2015). Development of an online tool for chemical R&D analytics and portfolio optimization. *Poster presentation at the Enterprise-Wide Optimization Collaborative Project Fall 2015 Meeting*, Center for Advanced Process Decision-Making, Carnegie Mellon University, 30 September – 1 October, Pittsburgh, PA, USA.

[O3] Ploskas, N. (2015). Multiple criteria decision making. *Oral presentation at the Department of Chemical Engineering, Carnegie Mellon University*, 10 September, Pittsburgh, PA, USA.

[O2] Ploskas, N. (2015). Hybrid optimization algorithms: implementation on GPUs. *Oral presentation at the 4th International Symposium and 26th National Conference on Operational Research for the Best PhD Dissertation on Operations Research*, 4 June, Chania, Greece.

[O1] Ploskas, N. (2015). Parallelizing the dual revised simplex method. *Oral presentation at the Department of Chemical Engineering, Carnegie Mellon University*, 8 April, Pittsburgh, PA, USA.

7.9. CITATIONS

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