

# Stathis Plitsos

## PERSONAL DATA

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E-MAIL: stathisp@unipi.gr  
NATIONALITY: Greek

## EDUCATION

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03.2012 - 11.2017	<b>Ph.D., Discrete Optimization and Decision Support Systems</b> Thesis: 'Integrated Methods and Systems for Optimization and Decision Support' Department of Management Science and Technology Athens University of Economics and Business
08.2010 - 02.2012	<b>M.Sc., Information Systems</b> Department of Informatics Athens University of Economics and Business
09.2005 - 06.2010	<b>B.Sc., Computer Science</b> Department of Informatics and Telecommunications National and Kapodistrian University of Athens

## WORK EXPERIENCE

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09.2024 - TODAY	<b>Chief Technology Officer</b> Optiscale.
06.2021 - 09.2024	<b>Innovation Director</b> DeepSea Technologies Ltd.
03.2017 - 05.2021	<b>Director of Development</b> DeepSea Technologies Ltd. Lead programmer, Head of development Technologies: C, PostgreSQL, Java, Spring, Apache Kafka, RabbitMQ, AngularJS
12.2015 - 12.2016	<b>Full-stack Developer</b> Glafcos Maritime Ltd. (Freelance contractor) Fleet and vessel inspection mobile and web application Technologies: AngularJS, Node.js, ionic, Apache Cordova, Bootstrap, MongoDB
06.2015 - 12.2016	<b>Dev. Team leader, Architect, Full-stack Developer</b> Intrasoft International S.A. (Freelance contractor) U-TURN research project, matching platform for collaboration in transportation Technologies: UML, Java, Spring, AngularJS, Bootstrap, MySQL
11.2011 - 04.2014	<b>System Analyst</b> Athens University of Economics and Business ARTISAN research project, energy-aware production scheduling DSS Technologies: UML
06.2010 - 10.2010	<b>Hardware Engineer</b> Bank of Greece, Department of System Support (internship) IT support

## TEACHING EXPERIENCE

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03.2023 - 09.2023	<b>Comp. Methods/Tools for Industrial Management</b> , Adjunct Lecturer Department of Industrial Management and Technology University of Piraeus
04 .2022 - 07.2022	<b>Comp. Methods/Tools for Industrial Management</b> , Adjunct Lecturer Department of Industrial Management and Technology University of Piraeus
11.2021 - 02.2022	<b>Mathematical Programming</b> , Adjunct Lecturer M.Sc. in Management Science and Technology Department of Management Science and Technology Athens University of Economics and Business
10.2019 - 02.2020	<b>Combinatorial Optimization</b> , Adjunct Lecturer M.Sc. in Informatics and Telematics Department of Informatics and Telematics Harokopio University
03.2018 - 06.2018	<b>Combinatorial Optimization</b> , Adjunct Lecturer M.Sc. in Management Science and Technology Department of Management Science and Technology Athens University of Economics and Business
11.2017 - 02.2018	<b>Mathematical Programming</b> , Adjunct Lecturer M.Sc. in Management Science and Technology Department of Management Science and Technology Athens University of Economics and Business
03.2012 - 06.2016	<b>Mathematical Programming</b> , Teaching assistant Department of Management Science and Technology Athens University of Economics and Business
10.2012 - 02.2013	<b>Combinatorial Optimization</b> , Teaching assistant Department of Management Science and Technology Athens University of Economics and Business
12.2012 - 02.2013	<b>Information Systems Impl. and Architecture</b> , Teaching assistant Department of Management Science and Technology Athens University of Economics and Business

## RESEARCH EXPERIENCE

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01.2023 - TODAY	<b>Horizon 2022 - Horizon.2.4.1: MODAPTO - GA no. 101091996</b> MODAPTO: Modular Manufacturing and Distributed Control via Interoperable Digital Twins University of Piraeus
08.2022 - TODAY	<b>Horizon 2020 - SPIRE PPP: AQUASPICE - GA no. 958396</b> AQUASPICE: Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovations Athens University of Economics and Business
06.2021 - TODAY	<b>Horizon 2020 - NMBP-SPIRE-2019: FACTLOG - GA no. 869951</b> FACTLOG: Energy-aware Factory Analytics for Process Industries University of Piraeus
01.2018 - 01.2021	<b>Horizon 2020 - EU.2.1.1: BigDataStack - GA no. 779747</b> BigDataStack: High-Performance Data-Centric Stack for Big Data Applications and Operations Danaos Shipping Co. Ltd.
06.2015 - 05.2018	<b>Horizon 2020 - MG.5.2-2014: U-TURN - GA no. 635773</b> U-TURN: Rethinking Urban Transportation through advanced tools and supply chain collaboration Intrasoft International S.A.
02.2013 - 09.2015	<b>National Research Fund: Thales 85418 - MIS: 379437</b> From Graph Theory to Matroids: Algorithmic Issues and Applications Aristotle University of Thessaloniki
06.2013 - 06.2015	<b>National Research Fund: Archimedes III, Subprj. 28 - MIS: 379389</b> Multi-index Assignment and all-different Systems Technological Educational Institute of Athens
12.2011 - 06.2015	<b>ICT.7-2011: ARTISAN - GA no. 287993</b> ARTISAN: Energy-Aware Enterprise Systems for low-carbon intelligent operations Athens University of Economics and Business
05.2012 - 05.2013	<b>ECR Hellas: Inventory Optimization</b> Application and assessment of collaboration techniques in the supply-chain Athens University of Economics and Business

## COMPUTER SKILLS

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<b>Business Management</b>	Jira
<b>Programming Languages</b>	C, C++, C#, Java, Javascript, PHP, HTML, CSS
<b>Programming Frameworks</b>	Spring, AngularJS, ionic, Apache Cordova
<b>Application Environments</b>	JRE, Node.js, .NET
<b>Distributed Software Frameworks</b>	Apache Hadoop
<b>Computational Packages</b>	IBM-ILOG CPLEX, SciLab, Neuroph
<b>Database Management Systems</b>	MySQL, PostgreSQL, MongoDB, Apache HBase
<b>Operating Systems</b>	Linux, Unix, OS-X, MS Windows

## LANGUAGES

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English – Cambridge Certificate of Proficiency in English  
German – Zentrale Mittelstufeprüfung, Göthe Institut  
Greek – Native

## Journals

- Under Review: Plitsos, S., Giannakos, K., & Farmakis, T., Eirinakis, P., Hohmann, T., Jotz, O., Vivo, G. (2024). Enabling production re-configurability through digital twins: A case study approach, *Journal of Intelligent Manufacturing Systems*.
- Under Review: Vatikiotis, S., Avgerinos, I., & Plitsos, S., Zois, G. (2024). A decision support system for optimised industrial water management, *Expert Systems with Applications*.
- Under Review: Plitsos, S., Kostaki, E., & Eirinakis, P., Bardaki, C. (2024). Enabling digital twins for industrial water management, *Journal of Cleaner Production*.
- Eirinakis, P., Koronakos, G., & Plitsos, S. (2023). Optimizing LPG production under quality specifications by preprocessing MILP with Pareto dominance and DEA, *International Journal of Production Research*, 1-24.
- Koronakos, G., Smirlis, Y., Plitsos, S. (2024). Mathematical programming models to assist the evaluation of ship-brokers. *Intelligent Decision Technologies*, 18(407-416).
- Eirinakis, P., Lounis, S., Plitsos, S., Arampatzis, G., Kalaboukas, K., Kenda, K., Lu, J., Rozanec, J. & Stojanovic, N. (2022). Cognitive Digital Twins for Resilience in Production: A Conceptual Framework. *Information*, 13(33).
- Plitsos, S., Repoussis, P. P., Mourtos, I., & Tarantilis, C. D. (2016). Energy-aware decision support for production scheduling. *Decision Support Systems*, 93(1), 88-97.
- Zampou, E., Plitsos, S., Karagiannaki, A., & Mourtos, I. (2014). Towards a framework for energy-aware information systems in manufacturing. *Computers in Industry*, 65(3), 419-433.

## Abstracts

- Plitsos, S., Magos, D., & Mourtos, I. (2015), Revisiting the Branch & Cut Method for the Axial and Planar Assignment Problem, *International Symposium on Mathematical Programming*.
- Plitsos, S., Magos, D., & Mourtos, I. (2014), Hybrid approaches for the multi-index assignment problem, *International Federation of Operation Research Societies Conference*.
- Plitsos, S., Magos, D., & Mourtos, I. (2013), An integrated solver for the  $(k, s)$ -assignment problem, *European Conference on Operational Research*.

## Conferences

- To appear: Eirinakis, P., Iung, B., Mourtos, I., Plitsos, S., Stojanovic, L., Triantafyllou, G., Voisin, A. (2024). Modular manufacturing and distributed control via interoperable digital twins. 18th IFAC Symposium on Information Control Problems in Manufacturing (INCOM2024).
- To appear: Farmakis, T., Lounis, S., Plitsos, S., Vivo, G., Mascolo, J., Jotz, O., Hohmann, T. (2024). Identifying the value proposition of modular manufacturing information systems for digital transformation. 2024 Digital Transformation Society, International Conference (DTS2024).
- Koronakos, G., Smirlis, Y., Plitsos, S., Tzannatos, E., Karalis, A., Poutos, K. (2023). Optishop: A platform to support decisions during ship's life cycle. 2023 IEEE Fourteenth International Conference on Information, Intelligence, Systems & Applications (IISA), IEEE.
- Plitsos, S., Varelas, T. (2020). Real-time ship management through the lens of big data. 2020 IEEE Sixth International Conference on Big Data Computing Service and Applications (BigDataService) (pp. 142-147), IEEE.
- Makridis, G., Kyriazis, D., Plitsos, S. (2020). Predictive Maintenance leveraging machine learning for time-series forecasting in the maritime industry. 2020 IEEE 23rd International Conference on Intelligent Transportation Systems (pp. 1-8), IEEE.
- Plitsos, S., Magos, D., & Mourtos, I. (2016), An integrated solver for multi-index assignment, International Symposium on Artificial Intelligence and Mathematics.
- Kyriazis, D., Doulkeridis, C., Gouvas, P., Jiménez-Peris, R. , Ferrer, A. J., Kallipolitis, L., Kranas, P., Kousiouris, G., Macdonald, C., McCreadie, R., Moatti, Y., Papageorgiou, A., Patino-Martínez, M., Plitsos, S., Pouloupoulos, D., Paradell, A., Raouzaïou, A., Ta-Shma, P., Vianello, V. (2018), BigDataStack: A Holistic Data-Driven Stack for Big Data Applications and Operations, 2018 IEEE International Congress on Big Data.
- Plitsos, S., Magos, D., & Mourtos, I. (2016), An integrated solver for multi-index assignment, International Symposium on Artificial Intelligence and Mathematics.
- Damigos, M., Gergatsoulis, M., & Plitsos, S. (2014), Distributed Processing of XPath Queries Using MapReduce, New Trends in Databases and Information Systems (pp. 69-77), Springer International Publishing.