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Laboratory Teaching Personnel (EDIP)/ Modeling, Optimization and Optimal Control of Systems / Technical University of Crete, School of Production Engineering and Management

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Dr. Magdalene Marinaki received her Diploma in Production Engineering and Management from the Technical University of Crete and her M.Sc. and Ph.D. degrees from the same Department. During her studies, she received scholarships from the Greek State Scholarships Foundation (IKY) and the Technical Chamber of Greece (TEE). She is a member of the Laboratory Teaching Personnel (EDIP) at the School of Production Engineering and Management of the Technical University of Crete, with the academic field of "Modeling, Optimization and Optimal Control of Systems." She has worked as a researcher on several research projects funded by the European Commission. Her teaching experience includes teaching at the Hellenic Open University, the Open University of Cyprus, the Inter-Institutional Interdepartmental Postgraduate Program of the Hellenic Military Academy and the School of Production Engineering and Management of the Technical University of Crete, the School of Production Engineering and Management of the Technical University of Crete, and the Technological Educational Institute of Crete, Chania Branch. She is the author of 6 books, 62 papers in peer-reviewed international scientific journals, and 88 papers in scientific books published by international publishers and in peer-reviewed international conference proceedings. Her research interests include solving optimization problems using metaheuristic, evolutionary and nature-inspired algorithms, programming using Python, C++, C and Java, supply chain management, system modeling and optimization, optimal and automatic control, modeling and control of environmental systems, operations research and its applications, quantitative methods and data mining. Total citations: 5,361 (Google Scholar, March 10, 2026).

Selected Publications

1. D. Trachanatzi, M. Rigakis, **M. Marinaki**, Y. Marinakis (2022), A Modified Ant Colony System for the Asset Protection Problem, **Swarm and Evolutionary Computation**, 73, 101109 (**I.F. 2023**: 8.2)
2. N.A. Kyriakakis, T. Stamadianos, **M. Marinaki**, Y. Marinakis (2022), The Electric Vehicle Routing Problem with Drones: An Energy Minimization Approach for Aerial Deliveries, **Cleaner Logistics and Supply Chain**, 4, 100041 (**I.F. 2023**: 6.9).
3. N.A. Kyriakakis, **M. Marinaki**, N. Matsatsinis, and Y. Marinakis (2022), A Cumulative Unmanned Aerial Vehicle Routing Problem Approach for Humanitarian Coverage Path Planning. **European Journal of Operational Research**, 300 (3), 992-1004, (**I.F. 2023:** 6)
4. Y. Marinakis, **M. Marinaki** and A. Migdalas (2019), "A Multi-Adaptive Particle Swarm Optimization for the Vehicle Routing Problem with Time Windows", **Information Sciences**, 481, 311-329 (**I.F. 2023**: 8.1).
5. **M. Marinaki** and Y. Marinakis (2016) "A Glowworm Swarm Optimization Algorithm for the Vehicle Routing Problem with Stochastic Demands", **Expert Systems with Applications**, 45, 145-163 (**I.F. 2023**: 7.5).
6. Y. Marinakis, G.R. Iordanidou and **M. Marinaki** (2013), "Particle Swarm Optimization for the Vehicle Routing Problem with Stochastic Demands", **Applied Soft Computing**, 13, 1693-1704 (**I.F. 2023**: 7.2).
7. **M. Marinaki**, Y. Marinakis and G.E. Stavroulakis (2010), "Fuzzy Control Optimized by PSO for Vibration Suppression of Beams", **Control Engineering and Practice,** 18, 618-629 (**I.F. 2023**: 5.4).
8. Y. Marinakis and **M. Marinaki** (2010), "A Hybrid Multi-Swarm Particle Swarm Optimization Algorithm for the Probabilistic Traveling Salesman Problem", **Computers and Operations Research**, 37, 432-442 (**I.F. 2023**: 4.1).
9. Y. Marinakis and **M. Marinaki** (2010), "A Hybrid Genetic - Particle Swarm Optimization Algorithm for the Vehicle Routing Problem", **Expert Systems with Applications,** 37, 1446-1455 (**I.F. 2023**: 7.5).