### **Curriculum Vitae**

# Eirini Aivazidou, Ph.D., M.Sc., M.Eng.

# **Assistant Professor**

Department of Industrial Engineering and Management, School of Engineering, International Hellenic University (IHU), Alexandrian Campus of Sindos, Thessaloniki 57400, Greece

Office Address: Heron Building, 1st Floor, Room 216; E-mail: aveirini@ihu.gr

# **Employment**

04/2022-today	Assistant Professor (tenure track) in Engineering Economics and Management,
	Department of Industrial Engineering and Management, International Hellenic
	University, Greece
03/2020-02/2022	Postdoctoral Researcher in Digital Agriculture, Institute for Bio-Economy and Agri-
	Technology, Centre for Research and Technology – Hellas, Greece
03/2020-09/2021	Adjunct Lecturer, Department of Mechanical Engineering, Aristotle University of
	Thessaloniki, Greece
02/2018-02/2021	Postdoctoral Researcher in Circular Economy, Department of Mechanical Engineering,
	Aristotle University of Thessaloniki, Greece
06/2018-12/2019	Research Fellow in System Dynamics, Department of Computer Science and Engineering,
	Alma Mater Studiorum – University of Bologna, Italy
10/2013-06/2018	Teaching Assistant, Department of Mechanical Engineering, Aristotle University of
	Thessaloniki, Greece
02/2014-05/2018	Research Assistant/Associate in Supply Chain Management, Department of Mechanical
	Engineering, Aristotle University of Thessaloniki, Greece

#### **Education**

2013-2017	Ph.D. in Supply Chain Water Footprint Management, Department of Mechanical
	Engineering, Aristotle University of Thessaloniki, Greece (Distinction)
2014-2015	<b>M.Sc.</b> in <i>Transportation Engineering</i> , Department of Civil Engineering, Aristotle University
	of Thessaloniki, Greece (8.68/10, Distinction)
2008-2013	Diploma in Mechanical Engineering (M.Eng. equivalent), Department of Mechanical
	Engineering, Aristotle University of Thessaloniki, Greece (9.06/10, Distinction, Ranked 1st)

# Journal Publications (\*affiliated to IHU)

1. Mallioris, P., **Aivazidou, E.**, Bechtsis, D. (2024), "Predictive maintenance in Industry 4.0: A systematic multi-sector mapping", CIRP Journal of Manufacturing Science and Technology, Vol. 50, pp. 80-103. DOI: 10.1016/j.cirpj.2024.02.003 (\*)

2. **Aivazidou, E.**, Tsolakis, N. (2023), "Water Management and Environmental Engineering: Current Practices and Opportunities", Sustainability, Vol. 15, No. 15, pp. 11944. DOI: 10.3390/su151511944 (\*)

- 3. Cunico, G., **Aivazidou, E.**, Mollona E. (2023), "Investigating Supply and Demand in European Cohesion Policy: Micro-Foundations of Macro-Behaviours", Journal of the Knowledge Economy. DOI: 10.1007/s13132-023-01430-6 (\*)
- 4. **Aivazidou, E.**, Tsolakis, N. (2023), "Transitioning towards human-robot synergy in agriculture: A systems thinking perspective", Systems Research and Behavioral Science, Vol. 40, No. 3, pp. 536-551. DOI: 10.1002/sres.2887 (\*)
- 5. Tsolakis, N., Goldsmith, A.T., **Aivazidou, E.**, Kumar, M. (2023), "Microalgae-based circular supply chain configurations using Industry 4.0 technologies for pharmaceuticals", Journal of Cleaner Production, Vol. 395, pp. 136397. DOI: 10.1016/j.jclepro.2023.136397 (\*)
- 6. Bialas, C., Bechtsis, D., **Aivazidou, E.**, Achillas, C., Aidonis, D. (2023), "A Holistic View on the Adoption and Cost-Effectiveness of Technology-Driven Supply Chain Management Practices in Healthcare", Sustainability, Vol. 15, No. 6, pp. 5541. DOI: 10.3390/su15065541 (\*)
- 7. Bialas, C., Bechtsis, D., **Aivazidou, E.**, Achillas, C., Aidonis, D. (2023), "Digitalization of the Healthcare Supply Chain through the Adoption of Enterprise Resource Planning (ERP) Systems in Hospitals: An Empirical Study on Influencing Factors and Cost Performance", Sustainability, Vol. 15, No. 4, pp. 3163. DOI: 10.3390/su15043163 (\*)
- 8. Syrmos, E., Sidiropoulos, V., Bechtsis, D., Stergiopoulos, F., **Aivazidou, E.**, Vrakas, D., Vezinias, P., Vlahavas, I. (2023), "An Intelligent Modular Water Monitoring IoT System for Real-Time Quantitative and Qualitative Measurements", Sustainability, Vol. 15, No. 3, pp. 2127. DOI: 10.3390/su15032127 (\*)
- 9. Cunico, G., **Aivazidou, E.**, Mollona E. (2022), "Decision-making traps behind low regional absorption of Cohesion Policy funds", European Policy Analysis, Vol. 8, No. 4, pp. 439-466. DOI: 10.1002/epa2.1162 (\*)
- 10. **Aivazidou, E.**, Aidonis, D., Tsolakis, N., Achillas, C., Vlachos, D. (2022), "Wine Supply Chain Network Configuration under a Water Footprint Cap", Sustainability, Vol. 14, No. 15, pp. 9494. DOI: 10.3390/su14159494 (\*)
- 11. Cunico, G., **Aivazidou, E.**, Mollona E. (2022), "System Dynamics Gamification: A Proposal for Shared Principles", Systems Research and Behavioral Science, Vol. 39, No. 4, pp. 723-733. DOI: 10.1002/sres.2805
- 12. **Aivazidou**, E. (2022), "Water Management in Agriculture and Industry: Challenges, Trends, and Opportunities", Sustainability, Vol. 14, No. 1, pp. 66. DOI: 10.3390/su14010066
- 13. **Aivazidou, E.**, Banias, G., Lampridi, M., Vasileiadis, G., Anagnostis, A., Papagergiou, E., Bochtis, D. (2021), "Smart Technologies for Sustainable Water Management: An Urban Analysis", Sustainability, Vol. 13, No. 24, pp. 13940. DOI: 10.3390/su132413940
- 14. Cunico, G., **Aivazidou, E.**, Mollona E. (2021), "Beyond financial proxies in Cohesion Policy inputs' monitoring: A system dynamics approach", Evaluation and Program Planning, Vol. 89, pp. 101964. DOI: 10.1016/j.evalprogplan.2021.101964

15. Tagarakis, A., Benos, L., **Aivazidou, E.**, Anagnostis, A., Kateris, D., Bochtis, D. (2021), "Wearable Sensors for Identifying Activity Signatures in Human-Robot Collaborative Agricultural Environments", Engineering Proceedings, Vol. 9, No. 1, pp. 5. DOI: 10.3390/engproc2021009005

- 16. **Aivazidou, E.**, Politis, I. (2021), "Transfer Function Models for Forecasting Maritime Passenger Traffic in Greece under an Economic Crisis Environment", Transportation Letters: The International Journal of Transportation Research, Vol. 13, No. 8, pp. 591-607. DOI: 10.1080/19427867.2020.1744224
- 17. **Aivazidou, E.**, Tsolakis, N. (2021), "Investigating dynamic interconnections between organic farming adoption and freshwater sustainability", Journal of Environmental Management, Vol. 294, pp. 112896. DOI: 10.1016/j.jenvman.2021.112896
- 18. Cunico, G., **Aivazidou, E.**, Mollona, E. (2021), "Building a dynamic theory of citizens' awareness of European Cohesion Policy interventions", European Journal of Operational Research, Vol. 289, No. 2, pp. 758-773. DOI: 10.1016/j.ejor.2020.07.017
- 19. Rodias, E., **Aivazidou, E.**, Achillas, C., Aidonis, D., Bochtis, D. (2021), "Water-Energy-Nutrients Synergies in the Agrifood Sector: A Circular Economy Framework", Energies, Vol. 14, No. 1, pp. 159. DOI: 10.3390/en14010159
- 20. **Aivazidou, E.**, Cunico, G., Mollona, E. (2020), "Beyond the EU Structural Funds' Absorption Rate: How Do Regions Really Perform?", Economies, Vol. 8, No. 3, pp. 55. DOI: 10.3390/economies8030055
- 21. Cunico, G., **Aivazidou, E.**, Mollona, E. (2020), "European Cohesion Policy performance and citizens' awareness: A holistic System Dynamics framework", Investigaciones Regionales Journal of Regional Research, Vol. 46, pp. 131-162. DOI: 10.38191/iirr-jorr.20.007
- 22. **Aivazidou, E.**, Tsolakis, N. (2020), "A Water Footprint Review of Italian Wine: Drivers, Barriers, and Practices for Sustainable Stewardship", Water, Vol. 12, No. 2, pp. 369. DOI: 10.3390/w12020369
- 23. Tsolakis, N., **Aivazidou, E.**, Srai, J.S. (2019), "Sensor Applications in Agrifood Systems: Current Trends and Opportunities for Water Stewardship", Climate, Vol. 7, No. 3, pp. 44. DOI: 10.3390/cli7030044
- 24. **Aivazidou, E.**, Tsolakis, N., Vlachos, D., Iakovou, E. (2018), "A water footprint management framework for supply chains under green market behaviour", Journal of Cleaner Production, Vol. 197, pp. 592-606. DOI: 10.1016/j.jclepro.2018.06.171
- 25. Vlachos, D., **Aivazidou, E.** (2018), "Water Footprint in Supply Chain Management: An Introduction", Sustainability, Vol. 10, No. 6, pp. 2045. DOI: <a href="https://doi.org/10.3390/su10062045">10.3390/su10062045</a>
- 26. Tsolakis, N., Srai, J.S., **Aivazidou, E.** (2018), "Blue Water Footprint Management in a UK Poultry Supply Chain under Environmental Regulatory Constraints", Sustainability, Vol. 10, No. 3, pp. 625. DOI: 10.3390/su10030625
- 27. **Aivazidou, E.**, Tsolakis, N. (2017), "Assessing the Water Footprint of Pets: the Case of Small Breed Dogs", Chemical Engineering Transactions, Vol. 57, pp. 517-522. DOI: 10.3303/CET1757087
- 28. **Aivazidou, E.**, Tsolakis, N., Iakovou, E., Vlachos, D. (2016), "The emerging role of water footprint in supply chain management: A critical literature synthesis and a hierarchical decision-making framework", Journal of Cleaner Production, Vol. 137, pp. 1018-1037. DOI: 10.1016/j.jclepro.2016.07.210

29. **Aivazidou, E.**, Tsolakis, N., Vlachos, D., Iakovou, E. (2015), "Water Footprint Management Policies for Agrifood Supply Chains: A Critical Taxonomy and a System Dynamics Modelling Approach", Chemical Engineering Transactions, Vol. 43, pp. 115-120. DOI: 10.3303/CET1543020

30. **Aivazidou, E.**, Iakovou, E., Vlachos, D., Keramydas, C. (2013), "A Methodological Framework for Supply Chain Carbon Footprint Management", Chemical Engineering Transactions, Vol. 35, pp. 313-318. DOI: 10.3303/CET1335052

# **Research Activity**

2020-2022	"Human-Robot Synergetic Logistics for High Value Crops" (acronym: SYNERGIE), Centre
	for Research and Technology – Hellas, Researcher
	Funder: Hellenic Foundation for Research and Innovation, Greece
2018-2019	"Perception and Evaluation of Regional and Cohesion Policies by Europeans and
	Identification with the Values of Europe" (acronym: PERCEIVE), Alma Mater Studiorum –
	University of Bologna, Researcher
	Funder: European Commission (Horizon 2020)
2014-2015	"Innovation Capacity Building by Strengthening Expertise and Research in the Design,
	Planning and Operations of Green Agrifood Supply Chains" (acronym: GREEN-AgriChains),
	Aristotle University of Thessaloniki, Researcher
	Funder: European Commission (FP7)
2013-2014	"Feasibility Study for the Establishment of Dual Initial Vocational Education and Training
	in Schools and Enterprises in the Transport and Logistics Sectors in Greece", Aristotle
	University of Thessaloniki, Researcher
	Funder: Federal Institute for Vocational Education and Training, Germany

# **Teaching Activity**

2022-today	Postgraduate courses: "Production Systems", Department of Industrial Engineering and
	Management, International Hellenic University
2022-today	Undergraduate courses: "Linear Algebra", "Micro-/Macroeconomics", "Multivariate
	Calculus", "Entrepreneurship", Department of Industrial Engineering and Management,
	International Hellenic University
2020-2021	Undergraduate courses: "Multivariate Statistics", "Reliability and Maintenance",
	"Forecasting Techniques", Department of Mechanical Engineering, Aristotle University of
	Thessaloniki
2013-2018	Undergraduate courses: "Operations Research", "Inventory Management", "Supply Chain
	Management", "Simulation", Department of Mechanical Engineering, Aristotle University
	of Thessaloniki

#### **Awards**

Ph.D. Fellowship for excellent research proposal (2014-2017), Public Benefit Foundation Alexander S.
Onassis

- Honorary Award for excellent undergraduate studies' performance (2017), Technical Chamber of Greece
- Scholarship for excellent undergraduate studies' performance (2014), Aristotle University of Thessaloniki
- National Scholarship & Award for excellent undergraduate studies' performance (2009-2010), State Scholarships Foundation of Greece

## Memberships

- Technical Chamber of Greece (Registration No.: 135064)
- Association of Mechanical-Electrical Engineers of Northern Greece
- Greek Association of Supply Chain Management
- Hellenic Institute of Transportation Engineers
- Aristotle University of Thessaloniki Alumni Association
- Onassis Scholars' Association
- System Dynamics Italian Chapter

### Languages

- Greek (mother tongue)
- English (C2) ECPE Michigan
- Italian (C2) CELI 5
- German (B1) Zertifikat Deutch