



Prof. Dimitrios Vlachos

Address: Aristotle University of Thessaloniki, University Campus, PO Box 461, 54124, Thessaloniki, Greece

Email address: vlachos1@auth.gr **Phone number:** (+30) 2310995969

Nationality: Greek

WORK EXPERIENCE

[2002 – Current] **Professor, School of Mechanical Engineering**

Aristotle University of Thessaloniki, Greece

[2015 – Current] **Director, Laboratory of Statistics and Quantitative Analysis Methods**

Aristotle University of Thessaloniki, Greece

[2022 – Current] **Managing Director**

Digital Value Chains PC, spin-off of Aristotle University

[2017 – Current] **Coordinator, Group for Sustainable Agrifood Supply Chains**

Centre of Intradisciplinary Research, Aristotle University of Thessaloniki, Greece

[2017 – Current] **Senior Consultant**

Self-employed

[2014-17, 2022 -] **Head, Industrial Management Department**

Aristotle University of Thessaloniki, Greece

[1992 – 2002] **Freelancer Industrial Engineer**

Self-employed, partner in Technoplan Consulting Company Ltd.

[1996 – 2002] **Researcher, Industrial Management Department**

Aristotle University of Thessaloniki, Greece

EDUCATION AND TRAINING

[1983 – 1988] **Integrated master (5-year diploma) in Electrical Engineering w distinction**

Aristotle University of Thessaloniki

[1989 – 1992] **Integrated master (5-year diploma) in Mechanical Engineering w distinction**

Aristotle University of Thessaloniki

[1993] **Degree in Pedagogical Training**

School of Pedagogical and Technological Education

[1996 – 1999] **PhD in Mechanical Engineering with distinction**

Aristotle University of Thessaloniki

[2000] **Postdoctoral Researcher**

Erasmus University Rotterdam

TEACHING/ STUDENT SUPEVISION

Undergraduate level

- Aristotle University of Thessaloniki (Department Of Mechanical Engineering): Project Management, Reliability & Maintenance, Simulation, Production Operation Management, Lab in Forecasting Techniques, Inventory Management, Operational Research I, Statistics, Supply Chain Management. Supervision of more than 150 Theses.
- University Of Western Macedonia (Department of Mechanical Engineering): Statistics

Postgraduate level

- Aristotle University of Thessaloniki: Optimization and Simulation, Statistics and Stochastic Processes, Production and Maintenance Planning, Project Management, Introduction in Organization and Management, Optimization of Freight Transport Networks,
- University Of Macedonia: Project Management, Operations Management.
- Hellenic International University: Project management
- Technological Educational Institute of Central Macedonia: Optimization in Decision Making, Introduction in Logistics Operations Management, Technologies for Supply Chain Management and Precision Farming.

PhD level

Principal Supervisor in 11 PhD theses.

Member of the Supervising Committee in 14 PhD theses.

Examiner in other 17 PhD theses.

RESEARCH PROJECTS

As Principal Investigator

- Design and Feasibility Study for a new Private Open University in Cyprus, funded by AKMI S.A., 2008.
- Production and Inventory Modelling for Vitruvit Tiles Industry S.A., funded by Vitruvit S.A., 2010.
- Optimization Models for Green Supply Chains, funded by Greek Ministry of Education, Heraclitus Program, 2010-2013.
- Crisis Management on the District of Tempi - Master Plan, funded by Municipalities of the Region, 2010 – 2011.
- Strategic Master Plan for Port Network Development of Municipality of Volvi, funded by Municipality of Volvi, May 2012 – September 2012.
- Innovation Capacity Building by Strengthening Expertise and Research in the Design, Planning and Operations of Green Agrifood Supply Chains, Funded by the FP7-REGPOT program of the European Commission, 2012 –2016, Budget: 1,584,318 Euros.
- Feasibility study for the establishment of the dual vocational education and training system in schools and enterprises in Greece in the transport and logistics sectors in cooperation with the EffizienzCluster Management GmbH, Germany, Funded by the Federal Institute for Vocational Education and Training (BIBB), 2013 –2014.
- Development of Forecasting Methods for Estimating the Yield of Clingstone Peaches per Area and Variety, Funded by Greek Canning Peach Association, 2014.
- Strategic Supply Chain Design and Best Inventory Management Practices, Funded by ZANAE (zanae.gr/en), 2015.
- Improvement of Forecasting Methods for Estimating the Yield of Clingstone Peaches per Area and Variety, Funded by Greek Canning Peach Association, 2015.
- Support of Research Activities of Laboratory of Statistics and Quantitative Analysis Methods, Funded by ETAA, 2013- 2016.
- Improvement of Research Infrastructure of the Department of Mechanical Engineering, Funded by Aristotle University's Research Committee, 2014- 2016.
- Corporate Social Responsibility at Port of Thessaloniki, 2015- 2016.
- Dynamic Quality Control on Production lines using intelligent autonomous vehicles (Q-CONPASS), Entrepreneurship and Innovation” (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund), 2019-2022.
- Skills, characteristics, and training needs of ICT human capital in Greece, funded by a private company, 2020.
- Data collection and analysis for the Greek SMEs' ecosystem, funded by Euroconsultants SA,

2020.

- i-EAT Smart Food Safety Monitor and Control, Entrepreneurship and Innovation” (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund), 2020-2023.
- Data collection and analysis for industrial and agricultural energy consumers in Western Macedonia, funded by the Hellenic Electricity Distribution Network Operator S.A., 2020-2021.
- Enhancing the Competitiveness and Sustainable Growth in the Agrofood Sector through the promotion of Circular Economy (AGROFFICIENCY), funded by the Interreg Greece-Bulgaria – a European Territorial Cooperation Programme of the European Commission, 2021-2023.
- Intelligent platform for providing staffing and training in the hotel industry - INSTANT, Funding by Research and Innovation Foundation, Cyprus, program RESTART, 2021-2023.
- Traditional Gastronomic "Dishes" of Central Macedonia: sustainable supply chain networks, funding by NSRF 2014-2020, Innovation Investment Plans, and is co-funded by the Greek State, 2021-2023.
- Application of Advanced Manufacturing Techniques to VET: the case of Plastics sector, funded by Erasmus+ program, KA220-VET - Cooperation partnerships in vocational education and training, 2022-2024
- Autonomous Robotic Vehicle for disinfecting workplaces, Horizon Europe, EIT Health RIS 2022 Innovation program, 2022.
- Alliance for Fostering Business and Education Innovation through Digital Supply Chains, Horizon Europe, 101056425 - BE-Digital - ERASMUS-EDU-2021-PI-ALL-INNO, 2022-2025.

As Project Team Member

- Reliability Analysis of Automated Irrigation, Funded by MOP Information Technologies, 1991-92.
- Determination of Characteristics of Employees in Tourism Sector, Funded by Greek National Tourism Organization, 1993.
- Determination of Characteristics of Foreign Tourists in Greece, Funded by Greek National Tourism Organization, 1993-94.
- Organization study and Reengineering at the Hellenic Vehicle Industry - ELVO S.A., Funded by National Industrial Development Bank, program MENTOR, 1993-94.
- Development Study for the Magnesia Prefecture, funded by the National Organization for Employment - OAED, 1994.
- Incentives for the Development of Decentralized Energy Systems, funded by General Secretariat for Research and Development, Program PENED, 1994-95.
- Legal Framework and Feasibility Study of a Free Trade Zone in Thessaloniki, Funded by Balkan Business Center S.A., 1995.
- Pilot Implementation for the Development of Teleworking the Region of Central Macedonia, Funded by the Region of Central Macedonia, IRIS Initiative, 1995.
- Mapping and Problem Diagnosis of SMEs in the Prefecture of Drama, Funded by Ministry of Employment, ADAPT program, 1996.
- Value of Integration in Supply Networks, funded by Hewlett-Packard, U.S.A. (Strategic Planning and Modeling), 1996.
- Integrated Framework for the Valuation of and Privatization of Publicly Owned Companies, Funded by the Operational Program of Research and Technology – EPET II, 1997-98.
- Design and Planning of the Graduate Program of the Department of Mechanical Engineering, Aristotle University of Thessaloniki, funded by the Ministry of Education, program EPEAEK, 1997-2004.
- Practical Training Program of the Department of Mechanical Engineering, Funded by the Ministry of Education, program EPEAEK, 1997-98.
- Reform of the Undergraduate of the Department of Mechanical Engineering, Funded by the Ministry of Education, program EPEAEK, 1997.
- Work Study in a Bathroom Furniture Manufacturer, Funded by Computer Logic (North)-program RETEX, 1997-98.
- Design and Development of a Material Management System in a Bathroom Furniture Manufacturer, Funded by Computer Logic (North)-program RETEX,, 1997-98.

- Feasibility study for Flexible Metal Manufacturing, Funded by Christos Gantsis and sons S.A., 1998.
- Feasibility of production of commercial products with the Aristotle University's logo, Funded by E.A.D.P. A.U.Th., 1999.
- Feasibility study and Academic Organization of the University of Western Macedonia, Funded by Prefecture of Kozani, 1999-2000.
- Organizational Reengineering Study of Aristotle University, Funded by Aristotle University, 1999-2000.
- Feasibility study of the business plan of Hellenic Vehicles Industry S.A. for the construction of civil vehicle, Funded by ELVO S.A., KONVER program, 2000-01.
- Aristotle University Strategic Mapping for the Participation of Aristotle University at the Association of European Universities, Funded by E.A.D.P. A.U.Th., 2001.
- Human Resources Planning or the Tertiary Education in Greece, Funded by Ministry of Education –EPEAEK II, 2001-02.
- Strategic and Operational Plan of Aristotle University, Funded by Center of Educational Research, 2002.
- Research Network TMR for Reverse Logistics, Funded by European Commission – XII GD, 1997-2002.
- Feasibility Study and Academic Organization of Hellenic International University in Thessaloniki, Funded by the Ministry of Macedonia and Thrace, 2002.
- Planning of the construction of an Underground Parking Station at Aristotle University of Thessaloniki, Funded by Aristotle University of Thessaloniki, 2002-03.
- Costing of Electrical and Electronic Products at the End of their Useful Life, Funded Appliances Recycling S.A., 2004.
- Organizational Study for the Pedagogic Institute, Funded by the Ministry of Education, Operational Program for Education and Initial Professional Training (EPEAEK), 2005.
- Strategic Gastronomic Tourism Planning for the Region of Central Macedonia”, Funded by the Region of Central Macedonia- INTERREG IIIB, March – November 2005.
- Restructuring of the Undergraduate Program for the Department of Mechanical Engineering of Aristotle University of Thessaloniki, Funded by the Ministry of Education, Operational Program for Education and Initial Professional Training (EPEAEK), 2003-2008.
- Strategic and Operational Plan of Aristotle University 2006-2015, Funded by Aristotle University, 2005.
- Development of Studies and Processes for Attracting Investors to the International Freight Village of Thesprotia, Municipality of Paramithia, Funded by IMPETUS Engineers S.A., Jule 2007 – Jule 2008.
- Design of a National Network for Stem Cell Banks in Greece, Haematological Society of Greece, October 2008 – December 2008.
- Feasibility Study for the Short-Shipping Connection between the Cities of Kavala and Alexandria, Egypt», Prefectures of Kavala, Drama and Xanthi, 2009.
- Fraunhofer - Project Center Coatings in Manufacturing (PCCM), Funded by Fraunhofer Gesellschaft-Greek Secretariat for Research and Technology, 2010.
- Optimal Allocation of Points of Sales for the “MACEDONIA” Press Agency, Funded by the “MACEDONIA” Press Agency, 2010 – 2011.
- Development of the Strategic Plan for the Metropolitan Mass Transit Organization of Thessaloniki, Funded by EUROACTION SA, 2011.
- Hellenic International University - Operation and Development, Funded by National Development Framework ESPA: Operational Program Education and Life-Long Learning, 2011-2014.
- Feasibility Study for initiating the Shipping Line Igoumenitsa - Toulon (France), Funded by Igoumenitsa Port Authority S.A., 2011.
- Local Platform for Employment and Entrepreneurship of young Scientists in Innovation, Research and Technological Development, Funded by Thessalon{IQ}i- Smart City, 2012 - 2014.
- Hellenic Civil Unmanned Aerial Vehicle – HCUAV, Funded by SYNERGASIA, General Secretariat of Research and Technology, Program “Synergasia”, 2013 –2015.
- Upgrading the Plant Capital Exploitation of Natural Products of the Hellenic plant biodiversity

(PlantUp), funded by the Operational Programme “Competitiveness, Entrepreneurship and Innovation” (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund), 2018-2020.

- Intelligent Research Infrastructure for Shipping, Supply chain, Transport & Logistics (EN.I.R.I.S.S.T), funded by Operational Programme “Competitiveness, Entrepreneurship and Innovation” (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund), 2018-2020.

PUBLICATIONS

Monographs and Books

- Development of communication protocol for microcontroller networks, Diploma Thesis, Department of Electrical Engineering Aristotle University of Thessaloniki, Supervisor: Prof. V. Petridis, 1988.
- Software development for calculating reliability parameters using Markov processes, Diploma Thesis, Department of Mechanical Engineering Aristotle University of Thessaloniki, Supervisor: Prof. D.P. Psounos, 1992.
- Integrated methodological framework for the assessment of enterprises, Ph.D. Thesis, Department of Mechanical Engineering, Aristotle University of Thessaloniki, Supervisor: Prof. D.P. Psounos.
- Iakovou E., Bochtis D., Vlachos D., Aidonis D., Supply Chain Management for Sustainable Food Networks, Publisher: Wiley, 2016.

Publications in Peer-reviewed Journals and Collective Volumes

1. Tagaras G., Vlachos D., A Periodic Review Inventory System with Emergency Replenishments, *Management Science*, 47(3), 415-429, 2001.
2. Teunter R., Vlachos D., An Inventory System with Periodic Regular Review and Flexible Emergency Review, *IIE Transactions*, 33(8), 625-635, 2001.
3. Vlachos D., Tagaras G., An Inventory System with Two Supply Modes and Capacity Constraints, *International Journal of Production Economics*, 72(1), 41-58, 2001.
4. Teunter R., Vlachos D., On the Necessity of a Disposal Option for Returned Items that can be Remanufactured, *International Journal of Production Economics*, 75(3), 257-266, 2002.
5. Tagaras G., Vlachos D., Effectiveness of Stock Transshipment under Various Demand Distributions and Non-negligible Transshipment Times, *Production Operations Management*, 11(2), 183-198, 2002.
6. Georgiadis P., Vlachos D., Politou A., Reengineering of a Small Assembly-to-order Manufacturer: A Case Study, *International Journal of Operations and Quantitative Management*, 8(1), 21-35, 2002.
7. Vlachos D., Dekker R., Return Handling Options and Order Quantities for Single Period Products, *European Journal of Operational Research*, 151(1), 38-52, 2003.
8. Vlachos D., Tolias Y., Neuro-Fuzzy Modeling in Bankruptcy Prediction, *Yugoslav Journal of Operations Research*, 13(2), 165-174, 2003.
9. Georgiadis P., Vlachos D., Analysis of the Dynamic Impact of Environmental Policies on Reverse Logistics, *Operational Research: an International Journal*, 3(2), 123-135, 2003.
10. Georgiadis P., Vlachos D., The Effect of Environmental Parameters on Product Recovery, *European Journal of Operational Research*, 157, 449-464, 2004.
11. Teunter R., van der Laan E., Vlachos D., Inventory Strategies for Systems with Fast Remanufacturing, *Journal of the Operational Research Society*, 55, 475-484, 2004.
12. Van der Laan E., Kiesmüller G., Kuik R., Vlachos D., Dekker R., Stochastic Inventory Control for Product Recovery, in *Reverse Logistics*, by R. Dekker, M. Fleischmann, K. Interfurth and L. Van Wassenhove (eds.), Springer-Verlag, 181-220, 2004.
13. Georgiadis P., Vlachos D., Tagaras G., Long-term Analysis of Closed-loop Supply Chains, in *Reverse Logistics*, by R. Dekker, M. Fleischmann, K. Interfurth and L. Van Wassenhove (eds.), Springer-Verlag, 313-331, 2004.
14. Georgiadis P., Vlachos D., Decision Making in Reverse Logistics Using System Dynamics, *Yugoslav Journal of Operations Research*, 14(2), 259-272, 2004.
15. Georgiadis P., Vlachos D., Iakovou E., A System Dynamics Modeling Framework for the Strategic

16. Georgiadis P., Besiou M., Vlachos D., Iakovou E., A Comprehensive Methodological Framework for Sustainable Supply Chains, *IASME Transactions*, 2(4), 569-574, 2005.
17. Georgiadis P., Iakovou E., Vlachos D., Besiou M., A System Dynamics Approach of Ecological Motivation in Sustainable Supply Chains, *Transactions on Systems*, 1(5), 48-55, 2006.
18. Georgiadis P., Vlachos D., Tagaras G., The Impact of Product Lifecycle on Capacity Planning of Closed-Loop Supply Chains, *Production Operations Management*, 15(4), 514-527, 2006.
19. Chatzipanagioti M., Theodori V., Vlachos D. VMI modeling in global and electronic markets, *International Journal of Logistics Systems and Management*, 3(3), 271-287, 2007.
20. Vlachos D., Georgiadis P., Iakovou E., A System Dynamics model for Dynamic Capacity Planning of Remanufacturing in Closed-loop Supply Chains, *Computers & Operations Research*, 34(2), 367-394, 2007.
21. Iakovou E., Vlachos D., Xanthopoulos A., An analytical methodological framework for the optimal design of resilient supply chains, *International Journal of Logistics Economics and Globalisation*, 1(1), 1-20, 2007.
22. Iakovou E., Georgiadis P., Vlachos D., A comprehensive methodological framework for improving security and efficiency of port container logistics, *International Journal of Logistics Economics and Globalisation*, 1(2), 176-189, 2008.
23. Aidonis D., Xanthopoulos A., Vlachos D., Iakovou E., An Analytical Methodological Framework for Managing Reverse Supply Chains in the Construction Industry, *Transactions on Environment and Development*, 4(11), 1036-1046, 2008.
24. Tsitsamis D., Vlachos D., Iakovou E., Douligeris C., A Hierarchical Taxonomy of Decision-Making Models for Container Terminal Operations, *International Journal of Logistics Economics and Globalisation*, 1(3/4), 365-382, 2008.
25. Iakovou E., Vlachos D., Aidonis D., A Strategic Methodological Framework for the Development of Gastronomic Tourism: A Greek Region's Experience, *International Journal of Innovation and Regional Development*, 1(3), 301-318, 2009.
26. Papapanagiotou K., Angelis E., Vlachos D., Decision making in Supply Chains using Simulation: A Methodological Approach, *MIBES Transactions*, 3(1), 85-95, 2009.
27. Xanthopoulos A., Aidonis D., Vlachos D., Iakovou E., Reverse Logistics Processes of Multi-Type End-of-Life Buildings/Construction Sites: An Integrated Optimization Framework, *Transactions on Environment and Development*, 5(3), 250-259, 2009.
28. Iakovou E., Vlachos D., Xanthopoulos A., Risk and Security Management for Logistics Service Providers: Trends, Challenges and Opportunities, in: Wagner, S.M., Bode, C., (eds.), *Managing Risk and Security: The Safeguard of Long-Term Success for Logistics Service Providers*. Haupt Publishers, Berne, Switzerland, 59-81, 2009.
29. Iakovou E., Vlachos D., Xanthopoulos A., A Stochastic Inventory Management Model For a Dual-Sourcing Supply Chain with Disruptions, *International Journal of Systems Science*, 41(3), 315-324, 2010.
30. Iakovou E., Karagiannidis A., Vlachos D., Toka A. and Malamakis A., 2010, Waste biomass-to-energy supply chain management: a critical synthesis, *Waste Management*, 30(10), 1860-1870, 2010.
31. Iakovou E., Vlachos D., Toka A., Waste Biomass Supply Chains for Energy Production: A Hierarchical Decision-Making Framework, in: Haghi, A.K., (ed.), *Waste Management: Research Advances to Convert Waste to Wealth*, Series: Waste and Waste Management, Nova Science (USA), 2010.
32. Mallidis I., Dekker R., Iakovou E., Vlachos D., Tsitsamis D., Yard management for improving the efficiency of a Container Terminal, *MIBES Transactions*, 4(1), 72-79, 2010.
33. Vlachos D., Quantitative Risk Management Models for Newsvendor Supply Chains, in: Minis I., Zeimpekis V., Dounias G., Ampazis N., *Supply Chain Optimization, Design, and Management: Advances and Intelligent Methods*, IGI Global, 2011.
34. Xanthopoulos A., Vlachos D., Iakovou E. Optimal Sourcing Decisions for Unreliable Reverse Supply Chains, *Asia-Pacific Journal of Operational Research*, 28(1), 125-146, 2011.
35. Chatzipanagioti M., Iakovou E., Vlachos D., Hajidimitriou Y.A., Trade Facilitation and Supply Chain Network Design, *Operations and Supply Chain Management: An International Journal*, (4)2-3, 99-107, 2011.
36. Xanthopoulos A., Vlachos D., Iakovou E., Optimal Newsvendor Policies for Dual-Sourcing Supply Chains: A Disruption Risk-Management Framework, *Computers & Operations Research*, 39(2),

37. Vlachos D., Iakovou E., Keramydas C., Anagnostopoulos A., On the estimation of the necessary inventory for hellenic public cord blood banks using simulation, *Operational Research: An International Journal*, 12(1), 57-68, 2012.
38. Moussiopoulos N., Karagiannidis A., Papadopoulos A., Achillas C., Antonopoulos I., Perkoulidis G., Vlachos D., Vlachokostas C., Transportation Cost Analysis of the Hellenic System for Alternative Management of Waste Electric and Electronic Equipment, *International Journal of Environment and Waste Management*, 10(1), 2012.
39. Xanthopoulos A., Aidonis D., Vlachos D., Iakovou E., A Planning Optimization Framework for Construction and Demolition Waste Management, *International Journal of Industrial and Systems Engineering*, 10(3), 257-276, 2012.
40. Iakovou E., Vlachos D., Toka A., A Methodological Framework for Integrating Waste Biomass into a Portfolio of Thermal Energy Production Systems, in: Karagiannidis, A., (ed.), *Waste-to-energy. Opportunities and Challenges for Developing and Transition Economies*, Green Energy and Technology, Springer Verlag, 59-82, 2012.
41. Vlachos D., Iakovou E., Papapanagiotou K., and Partsch D., Building robust supply chains by reducing vulnerability and improving resilience, *International Journal of Agile Systems and Management*, 5(1), 59-81, 2012.
42. Papapanagiotou K., Vlachos D., Managing Supply Chain Disruption Risks: A Game-theoretical Approach, *International Journal of Mathematics in Operational Research*, 4(5), 515-530, 2012.
43. Mallidis I., Dekker R., Vlachos D., The impact of greening on supply chain design and cost: a case for a developing region, *Journal of Transport Geography*, 22, 118-128, 2012. <https://doi.org/10.1016/j.jtrangeo.2011.12.007>.
44. Toka A., Iakovou E., Vlachos D., Waste Biomass Supply Chains for Thermal Energy Production, in: Karagiannidis A. and Malamakis A. (eds.), *Energy recovery from waste and waste biomass: Current trends and challenges in the context of integrated resource management*, Laboratory of Heat Transfer and Environmental Engineering, Aristotle University of Thessaloniki, 2012.
45. Iakovou E., Vlachos D., Toka A., Integrating Waste Biomass into Thermal Energy Production Systems: A Strategic Methodological Framework, *Civil Engineering and Environmental Systems*, 29(4), 255-272, 2012. <https://doi.org/10.1080/10286608.2012.710610>.
46. Toka A., Iakovou E., Vlachos D., Grigoriadou L., Design of Biomass Diffusion Policies in the Residential Heating Sector: A Strategic System Dynamics Framework, Book chapter, special publication of the Department of Mechanical Engineering, Aristotle University of Thessaloniki in memory of Professor Nikolaos Kiriakis, 201-212, 2013.
47. Aivazidou E., Iakovou E., Vlachos D., Keramydas C., A Methodological Framework for Supply Chain Carbon Footprint Management, *Chemical Engineering Transactions*, 35, 313-318, 2013. <https://doi.org/10.3303/CET1335052>.
48. Mallidis I., Vlachos D., Iakovou E., A Decision Support Model for Capturing the Impact of Energy Savings and Pollution Legislation on Supply Chain Network Design, *Chemical Engineering Transactions*, 35, 325-330, 2013. <https://doi.org/10.3303/CET1335054>.
49. Iakovou E., Vlachos D., Achillas C., Anastasiadis F., Design of sustainable supply chains for the agrifood sector: A holistic research framework, *Agric Eng Int: CIGR Journal*, Special Issue 2014: Agrifood and Biomass Supply Chains, 1-10, 2014.
50. Toka A., Iakovou E., Vlachos D., Tsolakis N., Grigoriadou A.-L., Managing the diffusion of biomass in the residential energy sector: An illustrative real-world case study, *Applied Energy*, 129, 56-69, 2014. <https://doi.org/10.1016/j.apenergy.2014.04.078>.
51. Iakovou E., Vlachos D., Keramydas C., Partch D., Dual Sourcing for Mitigating Humanitarian Supply Chain Disruptions, *Journal of Humanitarian Logistics and Supply Chain Management*, 4(2), 245-264, 2014. <https://doi.org/10.1108/JHLSCM-03-2013-0008>.
52. Keramydas C., Tsolakis N., Vlachos D., Iakovou, E., A System Dynamics Approach towards Food Security in Agrifood Supply Networks: A Critical Taxonomy of Modern Challenges in a Sustainability Context. *MIBES Transactions*, 8, 68-83, 2014.
53. Mallidis I., Vlachos D., Iakovou E., Dekker R., Design and Planning for Green Global Supply Chains under Periodic Review Replenishment Policies, *Transportation Research Part E: Logistics and Transportation Review*, 72C, 210-235, 2014. <https://doi.org/10.1016/j.tre.2014.10.008>.
54. Grinias K., Iakovou E., Vlachos D., Gkikas A., Tsoukos G., Bizakis A., The Strategic Role of Port Community Systems for enhancing Business Operations and Productivity: The Case of the Port Authority of Igoumenitsa, in Stylios C., Floqi T., Marinski J., Damiani L. (Eds.) *Sustainable Development of Sea-Corridors and Coastal Waters*, The TEN ECOPORT project in South East

55. Keramydas C., Tsiolias D., Vlachos D., Iakovou E., A Simulation Methodology for Evaluating Emergency Sourcing Strategies of a Discrete Part Manufacturer. *International Journal of Data Analysis Techniques and Strategies*, 7(2), 141-155, 2015. <https://doi.org/10.1504/IJDATS.2015.068747>
56. Iakovou E., Vlachos D., Keramydas C., Tsiolias D., Evaluation of Emergency Sourcing Risk Mitigation Strategies for a Discrete Part Manufacturer, *International Journal of Advanced Logistics*, 4(1), 37-46, 2015. <https://doi.org/10.1080/2287108X.2015.1014621>
57. Aivazidou E., Keramydas C., Toka A., Vlachos D., Iakovou E., A Two-phase Carbon Footprint Management Framework: A Case Study on the Rockwool Supply Chain in: Muthu, S. (Ed.), *The Carbon Footprint Handbook*. London: Taylor and Francis Group, CRC Press, Ch. 21, 471-484, 2015. ISBN 978-1-482-26222-3.
58. Aivazidou E., Tsolakis N., Vlachos D., Iakovou E., Water Footprint Management Policies for Agrifood Supply Chains: A Critical Taxonomy and a System Dynamics Modelling Approach, *Chemical Engineering Transactions*, 43, 115-120, 2015. <https://doi.org/10.3303/CET1543020>.
59. Iakovou E., Vlachos D., Chatzipanagioti M., Design for Globalized Green Supply Chain Networks with Nearshored Production, in: Vlachos I., Malindretos G. (eds.), *Markets, Business and Sustainability*, Bentham Books, 185-203, 2015.
60. Toka A., Iakovou E., Vlachos D., Manure and Municipal Sewage Biomass Supply Chains in: Holm-Nielsen J.B., Ehimen E.A. (eds.), *Biomass supply chains for bioenergy and biorefining*, Woodhead Publishing, Elsevier, 357-384, 2016. <https://doi.org/10.1016/B978-1-78242-366-9.00016-2>
61. Iakovou E., Bochtis D., Vlachos D., Aidonis D., Sustainable Agri-food Supply Chain Management, in: Iakovou E., Bochtis D., Vlachos D., Aidonis D. (Eds.), *Supply Chain Management for Sustainable Food Networks*, Wiley, 1-40, 2016. ISBN: 978-1-118-93075-5
62. Keramydas C., Papapanagiotou K., Vlachos D., Iakovou E., Risk Management for Agri-food Chains, in: Iakovou E., Bochtis D., Vlachos D., Aidonis D. (Eds.), *Supply Chain Management for Sustainable Food Networks*, Wiley, 255-292, 2016. ISBN: 978-1-118-93075-5
63. Tsiolias D., Keramydas C., Iakovou E., Vlachos D., A Critical Synthesis of Supply Chain Risk Mitigation Strategies, *MIBES Transactions*, 10 (1), 116-130, 2016.
64. Aivazidou E., Tsolakis N., Iakovou E., Vlachos D., The emerging role of water footprint in supply chain management: A critical literature synthesis and a hierarchical decision-making framework, *Journal of Cleaner Production*, 137, 1018-1037, 2016. <https://doi.org/10.1016/j.jclepro.2016.07.210>.
65. Yakavenka V., Mallidis I., Siamas I., Vlachos D., Iakovou E. A Decision Support System for Cold Supply Chain Network Design, *MIBES Transactions*, 10(2), 162-171, 2016.
66. Tziantopoulos K., Vlachos D., Iakovou E., Additive Manufacturing: a Decision Support System for Spare Parts Inventory Management, *MIBES Transactions*, 10(2), 154-161, 2016.
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95. Tsiolias D., Keramydas C., Iakovou E., Vlachos D., Big Data and Agricultural Supply Chains: Opportunities for Increased Food Security, Hamburg International Conference of Logistics, Hamburg, September 24-25, 2015.
96. Keramydas C., Mallidis I., Vlachos D., Iakovou E., Cost and Environmental Trade-offs in Supply Chain Network Design and Planning: The Merit of a Simulation-based Approach, 16th ASIM Dedicated Conference, Simulation in Production and Logistics, Dortmund, Germany, 23-25 September, 2015.
97. Aivazidou E., Tsolakis N., Vlachos D., Iakovou E., Water Footprint Mitigation Strategies for Agrifood Products: The Application of System Dynamics in Green Marketing, 4th International Conference on Strategic Innovative Marketing (IC-SIM), September 24-27, 2015, Mykonos, Greece.
98. Tsiolias D., Keramydas C., Iakovou E., Vlachos D., An Up-to-date Critical Synthesis of Supply Chain Risk Mitigation Strategies, 3rd Olympus International Conference on Supply Chains, Athens, Greece, November 7-8, 2015.

99. Tsolakis N, Aivazidou E., Vlachos D., Water Footprint Assessment in Agrifood and Biofuel Supply Chains: A Critical Literature Synthesis, 3rd Olympus International Conference on Supply Chains, Athens, Greece, November 7-8, 196-205, 2015.
100. Tziantopoulos K., Iakovou E., Vlachos D., Additive Manufacturing: The Impact on Spare Parts Supply Chain, 3rd Olympus International Conference on Supply Chains, Athens, Greece, November 7-8, 2015.
101. Yakavenka V., Iakovou E., Vlachos D., The Cold Supply Chain, Environmental Footprint and Energy: A Critical Taxonomy, 3rd Olympus International Conference on Supply Chains, Athens, Greece, November 7-8, 2015.
102. Yakavenka V.A., Vlachos D., Sustainable Cold Supply Chain: A Critical Analysis of The Literature. In: International correspondence research/practice conference on Issues and Prospects Of Transport Complex Development. Minsk, Belarus, December-15, 2015.
103. Vouzas M., Bechtsis D., Vlachos D., Simulation based optimization of systems with automated-guided industrial vehicles, Innovation and Modern Entrepreneurship forms, Student Management Science and Technology Conference, EEDE, Athens, May 12, 2016.
104. Yakavenka V., Siamas I., Vlachos D., Iakovou E. Strategic Design of Cold Supply Chain Networks, 5th International Symposium and 27th National Conference on Operational Research, Athens, Greece, June 9-11, 2016.
105. Yakavenka V., Mallidis I., Siamas I., Vlachos D., Iakovou E. A Decision Support System for Cold Supply Chain Network Design, 11th MIBES Conference Proceedings, Heraklion, Greece, June 22-24, 2016.
106. Tziantopoulos K., Vlachos D., Iakovou E., Additive Manufacturing: a Decision Support System for Spare Parts Inventory Management, 11th MIBES Conference Proceedings, Heraklion, Crete, Greece, June 22-24, 2016.
107. Yakavenka, V., Vlachos D., A Methodological Framework for Cold Supply Chain Network Design, 2nd International correspondence research/practice conference on Issues and Prospects Of Transport Complex Development, Minsk, Belarus, October 4-6, 2016.
108. Karadimou C.C., Koletti A.E., Moschona A., Vlachos D., Assimopoulou A.N, Biologically Active Compounds of Peach Kernels, 11th Panhellenic Conference of Chemical Engineering, May 25-28, Thessaloniki, 2017.
109. Yakavenka V., Mallidis I., Vlachos D., Iakovou E., A Decision-Making Framework for Sustainable Supply Chain Management of Perishable Goods, Proceedings of the 6th International Symposium and 28th National Conference on Operational Research, Hellenic Society of Operational Research, Thessaloniki, June 8-10, 2017.
110. Aivazidou E., Vlachos D., Sustainable supply chain network design with water footprint consideration: A strategic optimization model, Proceedings of the 6th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference, Thessaloniki, June 25-30, 2017.
111. Katikaridis D., Bechtsis D., Liakos K., Vlachos D., Bochtis D., A Google-Maps® Based Software Tool for In-Field Logistics, 10th Panhellenic Conference of Agriculture Engineers (in Greek), September 28-29, Athens, 2017.
112. Moisiadis V., Bechtsis D., Liakos K., Vlachos D., Bochtis D., Development of Virtual Interface For The Design And The Control Navigation Of Autonomous Agricultural Vehicles (UGV), 10th Panhellenic Conference of Agriculture Engineers (in Greek), September 28-29, Athens, 2017.
113. Bechtsis D., Moisiadis V., Tsolakis N., Vlachos D., Bochtis D., Scheduling and Control of Unmanned Ground Vehicles for Precision Farming: A Real-time Navigation Tool, 8th International Conference on Information and Communication Technologies in Agriculture, Food & Environment, Chania, Crete, September 21-24, 2017.
114. Katikaridis D., Bechtsis D., Liakos K., Vlachos D., Bochtis D., A software tool for efficient intra-logistics in agriculture, 8th International Conference on Information and Communication Technologies in Agriculture, Food & Environment, Chania, Crete, September 21-24, 2017.
115. Karadimou C.C., Koletti A.E., Moschona A., Gika H.G., Vlachos D., Assimopoulou A.N, Peach Kernel: A Potential Source for Cosmeceuticals, 3rd IMEKOFOODS, Metrology Promoting Harmonization& Standardization in Food & Nutrition, Thessaloniki, October 1-4, 2017.
116. Bechtsis D., Tsolakis N., Vouzas M., Vlachos D., Industry 4.0: Sustainable material handling processes in industrial environments, 27th European Symposium on Computer Aided Process Engineering – ESCAPE 27, Barcelona October 1-5, 2017.
117. Moisiadis V., Bechtsis D., Menexes G., Vlachos D., Iakovou E., Bochtis D., 2017. Intelligent Autonomous Vehicles in industrial environments, 6th ICMEN International Conferences, October

5-6, 207-212, 2017.

118. Bouhouras E., Mallidis I., Kapetanopoulou P., Yakavenka V., Vlachos D., The Impact of A Centralized Distribution Structure on a Retailer's Supply Chain Costs: The Basis for Municipal Tax Setting, 6th ICMEN International Conferences, October 5-6, 9-17, 2017.
119. Yakavenka v., Vlachos D., Mallidis I., A Critical Taxonomy of Profit Optimization Models for Supply Chains of Perishable Goods in a Sustainability Context, 6th ICMEN International Conferences, October 5-6, 19-30, 2017.
120. Poulimenos D., Bechtsis D., Vlachos D., Iakovou I., A software tool for optimizing intra-logistic activities (338) 28th European Symposium on Computer Aided Process Engineering – ESCAPE 28, Graz, June 10-13, 2018.
121. Poulimenos D., Menexes I., Loukaridou Kizilia E.Z., Bechtsis D., Vlachos D., A swarm intelligence software tool for optimizing last-mile logistics in Green Supply Chains, 4th International Conference on Green Supply Chains. Thessaloniki, Greece, July 2-4, 2018.
122. Yakavenka, V., Bechtsis, D., Vlachos D., Blockchain Impact on Food Supply Chains: A Critical Taxonomy, 4th Olympus International Conference on Supply Chains, Katerini, Greece, September 14-15, 2018.
123. Karamitsos G., Bechtsis D., Tsolakis D., Vlachos D., Unmanned Aerial Vehicles for Warehouse Inventory Management, 4th Olympus International Conference on Supply Chains, Katerini, Greece, September 14-15, 2018.
124. Tziantopoulos K., Madas M., Vlachos D., Iakovou E., Pharmaceutical Supply Chain Transformation through Additive Manufacturing, 4th Olympus International Conference on Supply Chains, Katerini, Greece, September 14-15, 2018.
125. Yakavenka V., Mallidis I., Siamas I., Vlachos D., Iakovou I., Evaluation and Strategic Network Design in Cold Supply Chains, 4th Olympus International Conference on Supply Chains, Katerini, Greece, September 14-15, 2018.
126. Karadimou C., Koletti A., Moschona A., Gika H., Vlachos D., Assimopoulou A., Sustainable exploitation of peach industries' by-products for the recovery of bioactive constituents, 4th Olympus International Conference on Supply Chains, Katerini, Greece, September 14-15, 2018.
127. Aifadopoulou G., Mallidis I., Vlachos D., Grau J.M.S. Iakovou E., Development of a "Fair" Marketplace for on-demand capacity matching. Transportation Research Board Conference, January 12-16, 2020, Washington DC.
128. Xenou E., Dais S., Ayfantopoulou G., Matsouliadou M. and Vlachos D., Intelligent Intermodal Corridor Management: Tendencies, Issues and Smart Practices along the Greece-China land-sea express line and Greece-Central Europe land corridors, 10th International Congress on Transportation Research Future Mobility and Resilient Transport: Transition to innovation, Rhodes, September 1-3, 2021.

Announcements at Conferences

1. Vlachos D., Tagaras G., Emergency Ordering in Periodic Review Inventory Systems, Management Science and Operations Research in an Emerging Region, invited paper in INFORMS Inter-national Conference, Tel Aviv, 28 June-1 July 1998.
2. Georgiadis P., Vlachos D., Psounos D.P., On the Integration of MRP Systems in Production Planning, XVI EURO Conference, Brussels, July 12-15, 1998.
3. Vlachos D., Tagaras G., Using Two Supply Modes for Inventory Replenishment: Applications to Reverse Logistics, 1st TMR Workshop on Reverse Logistics, Leiden, July 16-18, 1998.
4. Tagaras G., Vlachos D., A Periodic Review Inventory System with Emergency Replenishments, 10th International Symposium on Inventories, ISIR Budapest, August 22-26, 1998.
5. Vlachos D., Tagaras G., An Inventory System with Partial Replenishment through Remanufacturing, 2nd TMR Workshop on Reverse Logistics, Spetses, June 5-9, 1999.
6. Vlachos D., Tagaras G., Inventory Management Systems with two Supply Modes (in Greek), 1st Special Conference, Hellenic Operational Research Association, Ioannina, October 29-31, 1999.
7. Vlachos D., Dekker R., Ordering Policies for Single Period Products with Returns, 3rd TMR Workshop on Reverse Logistics, Wittenberg, August 28- September 1, 2000.
8. Vlachos D., Dekker R., Return Handling Options and Order Quantities for Single Period Products, POM Mastery in the New Millennium, POMS Conference, Orlando, March 31- April 1, 2001.
9. Georgiadis P., Vlachos D., Decision-Making in Reverse Logistics using System Dynamics, XVIII EURO Conference, Rotterdam, July 9-11, 2001.

10. Teunter R., Van der Laan E., Vlachos D., Inventory Strategies for Hybrid Manufacturing/ Remanufacturing Systems with unequal lead-times, XVIII EURO Conference, Rotterdam, July 9-11 2001.
11. Vlachos D., Georgiadis P., Dynamics of Reverse Logistics Systems, 4th TMR Workshop on Reverse Logistics, Lisbon, September 14-17, 2001.
12. Teunter R., Van der Laan E., Vlachos D., Inventory Strategies for Systems with Fast Remanufacturing, IFORS2002, Edinburgh, July 8-12, 2002.
13. Vlachos D., Georgiadis P., Tagaras G., Long Term Analysis of Closed-loop Supply Chains with System Dynamics, Joint EURO/INFORMS Conference, Istanbul, July 6-10, 2003.
14. Georgiadis P., Vlachos D., The Impact of Environmental Issues on Reverse Logistics Capacity Planning, Joint EURO/INFORMS Conference, Istanbul, July 6-10, 2003.
15. Psounis D., Georgiadis P., Vlachos D., Karatsis I., Study of Alternative Faculty Recruitment Planning Policies at Universities using a System Dynamics Model, 17th Operational National Conference, Patra, June 16-18, 2005.
16. Moussiopoulos N., Achillas H., Avramidis A., Boudouvas D., Giama E., Karagiannidis A., Papadopoulos A., Perkoulidis G., Sioris K., Vlachos D., Cost analysis of the management of electrical and electronic products at the end of their useful life, 13th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Thessaloniki, October 8-12 2005.
17. Vlachos D., Iakovou E., Xanthopoulos A., A Decision Making Analytical Model for Supply Chains with Disruptions, XXII EURO Conference, Prague, July 8-11, 2007.
18. Vlachos D., Iakovou E., Keramydas C., Spyropoulou-Vlachou M., Varla-Lefterioti M., Stavropoulos-Giokas C., Anagnostopoulos A., Hellenic Umbilical Cord Blood Bank Network (in Greek), 20th Panhellenic Hematological Conference, Crete, November 4-7, 2009.
19. Keramydas C., Anagnostopoulos A., Vlachos D., Iakovou E., Spyropoulou-Vlachou M., Varla-Lefterioti M., Stavropoulos-Giokas C., Hellenic Umbilical Cord Blood Bank Network, 15th Congress of the European Hematology Association, Barcelona, June 10-13, 2010.
20. Dekker R., Mallidis I., Vlachos D., Greening supply chain design: evaluating the trade-offs, 23rd POMS Conference, Chicago, Illinois, USA, April 20-23, 2012.
21. Mallidis I., Dekker R., Vlachos D., Tactical decision making for designing green logistics networks, 17th International Symposium on Inventories (ISIR), Budapest, August 20-24, 2012.
22. Vlachos D., Keramydas C., Tsolakis N., Iakovou E., Design of agrifood supply chains with dual-sourcing and emergency replenishments, International Federation of Purchasing and Supply Management (IFPSM) Summer School, Salzburg, Austria, July 4-9, 2013.
23. Vlachos D., Keramydas C., Tsolakis N., Iakovou E. Design of Cost Efficient, Sustainable and Secure Food Supply Chains. 20th Conference of the International Federation of Operational Research Societies (IFORS2014), Barcelona, Spain, July 13-18, 2014.
24. Vlachos D., Keramydas C., Tsolakis N., and Iakovou E., 2014. The Role of Small Farms in Sustainable Food Security: A System Dynamics Approach, 56th Conference of the Operational Research Society (ORS), Surrey, UK, September 9-11, 2014.
25. Anastasiadis F., Iakovou E., Vlachos D., Tsolakis N., Sustainable Agrifood Supply Chain Management: The Case of the Greek Organic Food Sector, 56th Conference of the Operational Research Society (ORS), Surrey, UK, September 9-11, 2014.
26. Tsolakis N., Keramydas C., Vlachos D., Food security challenges and the role of small farms in fostering sustainability in the developed world: A critical discussion, International Conference on Business & Economics of the Hellenic Open University, Athens, Greece, February 6-7, 2015.
27. Dekker R., Mallidis I., Vlachos D., Iakovou E., Design and Planning for Green Global Supply Chains under Periodic Review Replenishment Policies, 26th Annual POMS Conference, POMS, Washington DC, May 8-11, 2015.
28. Keramydas C., Iakovou E., Vlachos D., Market Share Recovery Dynamics in the Aftermath of Substitute Supply Chains Disruptions: A System Dynamics Approach, 27th European Conference on Operational Research, Glasgow, UK, July 12-15, 2015.
29. Mallidis I., Iakovou E., Vlachos D., Dekker, R., Design and Planning of Green Globalized Supply Chains: The Merit of "Slow Steaming", 27th European Conference on Operational Research, Glasgow, UK, July 12-15, 2015.
30. Tsolakis N., Aivazidou E., Vlachos D., Iakovou E., Water Footprint and Sustainable Agrifood Supply Chains: a System Dynamics Methodology, 27th European Conference on Operational Research, Glasgow, UK, July 12-15, 2015.

31. Vouzas M., Bechtsis D., Vlachos D., Simulation-based optimization of AGV systems in industry, 13th student Conference on Management Science and Technology, Athens, May 12, 2016.
32. Koutras D., Bechtsis D., Vlachos D., Applications of Multi-agent systems in Agrifood supply chains, 14th Management Science and Technology Student Conference, April 27, 2017.
33. Katikaridis D., Menexes I., Bechtsis D., Vlachos D., Industry 4.0: Management of Automated Guided Vehicles in Industry, 14th Management Science and Technology Student Conference, April 27, 2017.
34. Maleas Z., Vlachos D., Aifandopoulou G., Salanova Grau J.M., Parodos L., Data-driven analytics for freight transport, 16th International Logistics and Supply Chain Congress, Pamukkale/Denizli, Turkey, October 18-20, 2018.
35. Assimopoulou A., Papageorgiou V., Kokkini S., Tsimidou M., Lazari D., Vlachos D., Christofilos D., PlantUp – Upgrading the plant capital, 30th International Symposium of Chemistry of Natural Products, Athens, November 25-29, 2018.
36. Vlachos D., Mallidis I., Yakavenka V., Optimal Inventory Control Policies for Avoiding Food Waste International Conference on Industrial Engineering and Operations Management, Pilsen, Czech Republic, July 23-26, 2019

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Technical Chamber of Greece (1988-).
- Hellenic Operational Research Society (1993-). Member of the Board of the Macedonia and Thrace Branch from (2001-03).
- Greek Association of Supply Chain Management (2003-); Member of the Board (2006-); Vice-president (2008-2014); President (2015-2023), Honorary President (2024-).
- Institute for Operations Research and Management Sciences-INFORMS (1997-)
- Council of Supply Chain Management Professionals, CSCMP (2008-).

LANGUAGE SKILLS

Mother tongue: **Greek**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2