

STELIOS KOUKOUMIALOS

Professor of Operations Research and Operations Management

University of Thessaly, School of Business and Economics
Department of Business Administration
Larissa, 411 10 Greece

Tel.: (+30) 2410 684338, E-mail: skoukoum@uth.gr

PERSONAL INFORMATION

Date of Birth: 16 April 1973
Place of Birth: Athens, Greece
Family Situation: Married, two child

SCIENTIFIC INTERESTS

Operations Research, Automatic Control, Production/Operations Management, Applied Probability, supply chain management.

EDUCATION

Earned Degrees

- Ph.D., Mechanical Engineering, University of Thessaly, GREECE, 2003, Title “*Performance Evaluation and Properties of Kanban-Type Policies for the Coordination of Multi-Stage Production-Inventory Systems*”.
- B.S., Mechanical Engineering, University of Thessaly, GREECE, 1997.

ACADEMIC POSITIONS

- Professor, Department of Business Administration, University of Thessaly, Greece, 2020-present.
- Member of the Associate Educational Staff (A.E.S.) at Hellenic Open University, Greece, 2021-present.
- Associate Professor, Department of Business Administration, Technological Educational Institute of Thessaly, Greece, 2015-2020.
- Assistant Professor, Department of Business Administration, Technological Educational Institute of Larissa, Greece, 2009-2015.
- Adjunct Lecturer, Department of Business Administration, University of Aegean, Greece, 2004-2009.
- Adjunct Lecturer, Department of Financial & Management Engineering, University of Aegean, Greece, 2004, 2008-2009.
- Adjunct Lecturer, Department of Mechanical Engineering, University of Thessaly, Greece, 2009-2012.

- Adjunct Assistant Professor, Department of Business Administration, Technological Educational Institute of Larissa, Greece, 2007-2008.
- Teaching and Research Assistant, Department of Mechanical Engineering, University of Thessaly, Greece, 1997-2003.

ADMINISTRATIVE RESPONSIBILITIES

- Member of Evaluation Committee of candidates for a technical staff position in applied informatics and multimedia, information management, computer science, informatics and telecommunications, informatics and computer technology, for the needs of the Department of Business Administration, 2009.
- Member of Evaluation Committee of bidders for the supply and installation of interactive whiteboards, projectors and laptops in classrooms for the Departments of Business Administration and Project Management, in the School of Business and Economics, 2010.
- Member of the Committee for drafting the first Internal Evaluation Report of the Department of Business Administration for the Academic Year 2009
- Member of the Scientific Evaluation Committee of candidate Scientific-Laboratory Associates of the Department of Business Administration, 2009-2013.
- Member of the Academic and Research Committee of the Technological Educational Institute of Larissa, 2010-2012.
- Member of the Committee for proposing and justifying the reopening of a position in “Project Management & Production Systems”, 2010.
- Member of Committee for drafting the guidelines for writing “Student Diploma Theses”, 2010.
- Head of the Sector of Management in the Department of Business Administration, academic year 2010-2011.
- Vice Chairman of selection Committee of providers of supply and security services in the main campus of the Technological Educational Institute of Larissa and of Student homes, 2011-2012.
- Member of the committee for distributing and collecting teaching evaluation questionnaires in the Department of Business Administration, 2010-2012.
- Editor of the “Annual Summary Report” for the Department of Business Administration, 2010-11.
- Member of Committee the Rank-based Academic Placement of students, 2010-11.
- Member of the Committee of supplies purchases in the Department of Business Administration, 2009-2012.
- Member of the Internal Evaluation Team of the Department of Business Administration, 2011, 2012.
- Member of Committee for drafting the criteria for grading “Student Diploma Theses”.
- Regular member of the “Receipt of Materials and Services” Committee for the School of Business Administration, 2012-present.
- Member of the Council of the Department of Business Administration, 2010-2012.

- Member of the Procurement Committee for the School of Business Administration, 2010-12.
- Member of the Selection Committee of candidates for an Assistant Professor position in “Quantitative Methods in Management of Development Project” in the Department of Project Management, School of Business and Economics, Technological Educational Institute of Larissa, 2012.
- Participation in numerous committees until present.

PROFESSIONAL ACTIVITIES

Conference Organization

- Member of Scientific Committee, *3rd National Conference on Management and Economics*, Florina, Greece, September 18-20, 2009.
- Member of Scientific Committee, *4th International Conference on Management of International Business & Economic Systems*, Florina, Greece, September 18-20, 2009.
- Member of Scientific Committee, *4th National Conference on Management and Economics*, Kavala, Greece, June 4-6, 2010.
- Member of Scientific Committee, *5th International Conference on Management of International Business & Economic Systems*, Kavala, Greece, June 4-6, 2010.
- Member of Scientific Committee, *5th National Conference on Management and Economics and 6th International Conference on Management of International Business & Economic Systems*, Serres, Greece, September 16-18, 2011.
- Member of Scientific Committee, *6th National Conference on Management and Economics and 7th International Conference on Management of International Business & Economic Systems*, Larisa, Greece, May 25-27, 2012.
- Member of Scientific Committee, *7th National Conference on Management and Economics and 8th International Conference on Management of International Business & Economic Systems*, Larisa, Greece, June 08-10, 2013.
- Member of Scientific Committee, *8th National Conference on Management and Economics and 9th International Conference on Management of International Business & Economic Systems*, American Farm School, Greece, May 10 - June 1, 2014.
- Member of Scientific Committee, *14th International Conference on Management of International Business & Economic Systems (ESDO has been merged in MIBES since 2014)*, 25th - 27th Oct 2019, Larisa, Thessaly, Greece.

Referee

- Reviewer in *5th annual IEEE Conference on Automation Science and Engineering (CASE 2009)*, Bangalore, India, August 22-25, 2009.
- Reviewer in *6th annual IEEE Conference on Automation Science and Engineering (CASE 2010)*, Toronto, Canada, August 21-24, 2010.
- Reviewer in *Innovative Manufacturing Engineering & Energy Conference (IManEE 2016)*, Kallithea, Chalkidiki, Greece, September 23-25.

- Reviewer, *International Journal on Artificial Intelligence Tools*.
- Reviewer, *Operational Research: An International Journal*, Springer.
- Reviewer, *International Journal of Operations Research and Information Systems*
- Reviewer, *International Journal of Decision Support Systems*
- Reviewer, *Journal of the Knowledge Economy*, Springer.
- Reviewer, *Decision Sciences, A Journal of the Decision Science Institute*.
- Reviewer, *SĀDHANĀ, Academy Proceedings in Engineering Sciences*, Springer.
- Reviewer, *MIBES Transactions, Open Access Journal*.
- Reviewer, *Evolutions in Mechanical Engineering*, Crimson Publishers.
- Reviewer, *Mathematics*, MDPI.
- Reviewer, *logistics*, MDPI.

Other Activities

- Member, EURO Working Group on Stochastic Modeling, 2006-present.
- Member of Chambers: Technical Chamber of Greece, 1998-present.
- Member of the Register of Researchers of the Center for Technological Research in Thessaly.

OCCUPATIONAL AND PROFESSIONAL EXPERIENCE

- Trainee Maintenance Engineer in the Department of Public Power, 1994.
- Trainee Maintenance Engineer in the Department of Public Power, 1995.
- Assessor under the Ministry of Development Program "Special Investment Industrial Manufacturing Companies and Service Companies Quality" for the ARVIS Ltd, 2000.
- Consultant in Project "Strengthening the Integrated Business Plan for Small and Very Small Enterprises" which was included in Measure 2.7, 2.7.1 Act of Operational Program "Competitiveness", on behalf of the Central Planning Greece - Business Consulting Organisation SA, 2001.
- Researcher in the Program "Investments in processing and marketing agricultural products" which became the Measure 2.1 of OP "Rural Development - Rural Reconstruction 2000-2006", on behalf of the Central Planning Greece - Business Consulting Organisation SA, 2002.
- Researcher in the Programme "Strengthening Women's Entrepreneurship" which was included in Measure 2.8 "Strengthening Entrepreneurship population's", the Operational Program "Competitiveness", on behalf of the Central Planning Greece - Business Consulting Organisation SA, 2002.
- Certification Consultant for the Central Planning of Greece SA in two companies during the development and implementation of Quality Management System according to standard ISO 9001: 2000, 2002.
- Developer tools business plan guide product integration within the IT infrastructure to strengthen the innovation system of Thessaly on behalf of the RISC CENTER, 2003.
- Advisory support to the company SIELMAN SA- High Tech Constructions, 2014-present.

- Assessor in a Research Program of the Hellenic Open University entitled "Administrative Support and Development of Study Programs of the Hellenic Open University".
- Assessor under the Ministry of Economy and Development and Ministry of Education, Research and Religions “Intervention II, Cycle A, Single Governmental Enhancement Actions, RESEARCH-CREATE-INNOVATE”.
- Assessor under the Ministry of Education, Research and Religious Affairs and General Secretariat for Research and Technology “Greece-China Joint RT&D Projects”.
- Assessor under the Cyprus Research Promotion Foundation (RPF) “RESTART 2016-2020 Programmes”.

TEACHING

Courses Taught

Undergraduate Courses

- Department of Business Administration, Technological Educational Institute of Thessaly.
 - Operations Research, 2007-2018.
 - Applications of Operations Research in Production, 2008-2009.
 - Decision Support Systems, 2008-2012.
 - Logistics, 2009-2013.
 - Production Management, 2011-2013.
 - Integrated projects applications I, 2013.
 - Administration and marketing services, 2014.
 - Statistics, 2015-2019.
- Department of Accountancy, Technological Educational Institute of Larissa.
 - Production Management, 2012.
 - Total quality Management, 2014.
- Department of Business Administration, University of Aegean.
 - Data Analysis II, 2005-2007.
 - Operations Research, 2005-2007.
 - Data Analysis I, 2005-2006.
 - Mathematics, 2005-2006.
 - Simulation of Business Systems, 2007.
 - Logistics, 2007.
- Department of Financial and Management Engineering, University of Aegean.
 - Modeling Financial Scenarios, 2004.
 - Simulation, 2008.
 - Stochastic Models, 2009.
- Department of Mechanical Engineering, University of Thessaly.

- Simulation in Industrial Production, 2009-2024.
- Applied Statistics II, 2010.
- Department of Business Administration, University of Thessaly.
 - Statistic for Business, 2020, 2021, 2022.
 - Quantitative Methods in Business Decision-Making I, 2021, 2022, 2023
 - Quantitative Methods in Business Decision-Making II, 2021, 2022, 2023
 - Production Management, 2022, 2023.
 - Statistic I, 2023, 2024, 2025.
 - Statistic II, 2024, 2025.
- Hellenic Open University.
 - Project Management, 2021, 2022, 2023, 2024, 2025.

Graduate Courses

- Program of Graduate Studies in Business Administrator “MBA”, Department of Business Administration, University of Aegean.
 - Business Management (7 lectures), 2004.
 - Operations Research, 2005-2007.
 - Analysis of Manufacturing Systems, 2005-2009.
 - Decision Theory and Statistics, 2005-2006.
- Program of Graduate Studies in Financial and Management Engineering, Department of Financial and Management Engineering, University of Aegean.
 - Matlab-SPSS (4 lectures), 2008.
 - Operations and Production Management, 2015.
- Program of Graduate Studies in Business Mathematics, jointly organized by the National and Kapodistrian University of Athens (Department of Mathematics and Department of Economics) and the Athens University of Economics and Business (Department of Informatics).
 - Mathematical Models in Production Systems I & II, 2001.
- Program of Graduate Studies in Project and Programme Management, Department of Business Administration, Technological Educational Institute of Thessaly.
 - Project Quality Management, 2014.
- Master of Business Administration - MBA, Department of Business Administration, Technological Educational Institute of Thessaly.
 - Quantitative methods in decisions making, 2016-2020
 - Operations management, 2016-2018.
 - Enterprise Resource Planning (ERP), 2017.
 - Sales Distribution Networks and Logistics, 2019-2020.
 - Investment Analysis & Portfolio Management, 2019-2020.
- Program of Graduate Studies in Supply Chain Management and Logistics, Department of Mechanical Engineering, School of Engineering, University of Thessaly.

- Simulation of Supply Chains, 2019-2026.
- Program of Graduate Studies in Public Administration and Local Government, University of Thessaly.
 - Total Quality Management (TQM) in Public Administration and Local Government, 2019-2020.
- Program of Graduate Studies in Entrepreneurship, Department of Economics – Department of Business Administration, University of Thessaly.
 - Operations Management and Global Value Chains, 2019-2024.
- Program of Graduate Studies in Business Administration (MBA), Department of Business Administration, University of Thessaly.
 - Quantitative methods in decisions making, 2020-2022.
 - Supply Chain Management, 2020-2025.
 - Statistics & Econometrics, 2023-2025.
- Program of Graduate Studies in Agile Management Methods, Department of Business Administration, University of Thessaly.
 - Quantitative Methods in Project Management, 2020-2025.
- Program of Graduate Studies in Advanced Design, Technology & Management of Wooden Products, Department of Forestry, Wood Sciences & Design, University of Thessaly.
 - Production and Operations Management, 2024.

Thesis Supervision

Completed Diploma Theses

- 7 Diploma Theses in the Department of Financial and Management Engineering, University of Aegean.
- 3 Diploma Theses in the Department of Business Administration, University of Aegean.
- More than 60 Diploma Theses in the Department of Business Administration, Technological Educational Institute of Thessaly and in the Department of Mechanical Engineering, University of Thessaly.

Teaching Seminars on Vocational Training Sessions

- Material Requirement Planning (MRP), Continuing Professional Training Program entitled "Introduction to Innovation and Technology Management", Vocational Training Centre Prefecture of Magnesia, 2000.
- Logistics Management (Transfer - Storage - Distribution of Products / Goods Materials), Operational Program Industry with theme Finance and Administration, 2000.
- Total Quality Management, Operational Program Industry, 2000.

- Applications of Quantitative Methods in Mechanical Problems ", to mechanical members of the Technical Chamber of Greece - Regional Department of Central & Western Thessaly, 2016.
- CSMA (Certified Secretaries Management Assistants), KEK IVEΠE – SEV, 2017.

Lecture Notes

- Ntzoufras, I. and Koukoumialos, S., 2006. *Introduction to categorical data Analysis*, Department of Business Administration, University of the Aegean.
- Koukoumialos, S., 2007. *Simulation Financial Scenarios*, Department of Financial and Management Engineering, University of Aegean.

Book Editing

- Taylor B.W. – Introduction to Management Science, 12e
- Levine D.M. – Business Statistics: A First Course, 7e, 8e.
- Arben Asllani – Business Analytics with Management Science Models and Methods.
- Mario F. Triola - Elementary Statistics, 13e.
- Cliff T. Ragsdale – Spreadsheet Modeling and Decision Analysis. A Practical Introduction to Business Analytics, 9e.

RESEARCH GRANTS

1. Title: New Methods for the Organization, Management, and Strategic Planning of SMEs in the Metal Industry, Funding: Greek Ministry of Labor & Social Security-ADAPT-Phase 2, Position: Researcher at UTH, 1998-99.
2. Title: The Effect of Lot Sizing on the Performance of Production Control Systems, Funding: UTH Scientific Committee, Position: Researcher, 1999.
3. Title: Production Management and Product Quality in SMEs, Funding: EOMMEX-Regional Directorate of Thessaly, Position: Researcher, 1999.
4. Title: Production-Inventory Control Policies with Advance Demand Information, Funding: UTH Scientific Committee, Position: Researcher, 2001.
5. Title: Development of a System for the Inspection and Identification of the Static Sufficiency of the Primary Bridges at the Egnatia (National) Road, Funding: Egnatia Odos, S.A, Position: Researcher, 2001-02.
6. Title: Developing and disseminating tools for innovation management INNOREGIO, Funding: European Union, Ministry of Economy, Position: Researcher, 2002-03.
7. Title: Networking and sharing experiences in innovation in other regions of the research program "Innovative projects in Thessaly (INVENT)", Funding: Ministry of Economy and European Union, Position: Researcher, 2002-03.

8. Title: Identify innovative business ideas within the research program "Innovative projects in Thessaly (INVENT) action High-Tech Start-Ups and Spin-Offs", Funding: Ministry of Economy and European Union, Position: Researcher, 2003.
9. Title: Practice of students of the Department of Mechanical and Industrial Engineering, Funding: Ministry of Education/Operational Programme "Education and Initial Vocational Training", Position: Technical Support, 1998-03.
10. Title: Strategic Business Development Network Construction in Electrical Vehicles, former AEVAL Ptolemais, Funding: Center for Technological Research of Thessaly, Position: Researcher, 2009.
11. Title: Practice of students of the Department of Business Administration, Technological Educational Institute of Larissa, Funding: Ministry of Education/Operational Programme "Education and Initial Vocational Training", Position: Researcher, 2011-2013.
12. Title: Education and lifelong learning, Research Action "Digital Projects in Higher Education", Funding: Uniform Administrative Sector in European Resources, 2012.
13. Title: «A Holistic Approach for Managing Variability in Contemporary Global Supply Chain Networks (Acronym: Odysseus)», Research Action "THALIS. University of Thessaly, Department of Mechanical Engineering, 2012-2015.
14. Title: "Exploration and Development University of Thessaly (ACTION 3) ", subject" Push-pull composite supply chain concept consisting of a serial and divergent supply network ". Position in the Project: Researcher, 2018.
15. Title: "Development of a computational tool to assist in the decision-making of a shipping company regarding the problem of optimal scheduling of requests satisfaction for the replacement of crew members of the fleet of the specific company". Position in the Project: Researcher, 2019.
16. Title: «Reformation of the supply chain of the Thessaly region with the creation of an intermodal transport hub at the premises of the former "Zacharis" factory in the city of Larissa», Funding: Special Program Management Service "Thessaly". Position: Deputy Scientific Director. University of Thessaly, Department of Mechanical Engineering, 2025-2028.
17. Title: "Supply Chain Simulation", Funding: KEDIVIM, Project Position: Deputy Scientific Director. Duration: 2026-05-27- 2026-12-31.

EDUCATIONAL GRANTS

18. Title: Education and Lifelong Learning, Action Category "Digital Actions in Higher Education", Funding: Single Administrative Sector of European Resources, 2012.
19. Title: "Student Internship", Operational Program "Education and Lifelong Learning". TEI of Larissa, Department of Business Administration, 2011-2013.
20. Title: Erasmus +, Staff Mobility for teaching and training, Czech Republic, University of South Bohemia, 2016.

21. Title: Erasmus +, Staff Mobility for teaching and training, Poland, University of Lodz, 2018 (participation in the “International Week”).
22. Title: Erasmus +, Staff Mobility for teaching and training, Lithuania, Vilniaus kolegija / University of Applied Sciences, Faculty of Economics, 2018.
23. Title: Erasmus +, Staff Mobility for teaching and training, Portugal, Universidade Lusófona do Porto, Faculty of Management Sciences, 2019.
24. Title: "Business Analytics and administrative decision-making using computers software", Funder: ELKE, Aristotle University of Thessaloniki, Project Position: Teaching. Duration: 22/11/2022 to 31/12/2022.
25. Title: Erasmus +, Staff Mobility for teaching and training, Spain, University of Zaragoza, Department of Applied Economics, School of Economics and Business, 2022.
26. Title: Erasmus +, Staff Mobility for teaching and training, Czech Republic, Mendel University in Brno, Department of Statistics and Operation Analysis, Faculty of Business and Economics, 2023.
27. Title: Erasmus +, Staff Mobility for teaching and training, Poland, Wroclaw University of Economics and Business, Department of Logistics, Faculty of Management, 2024.
28. Title: Erasmus +, Staff Mobility for teaching and training, Romania, Bucharest University of Economic Studies, Department of Economics and Economic Policies, Faculty of Economics, Blended Intensive Programme, 2025.
29. Title: Erasmus +, Staff Mobility for teaching and training, Belgium, VIVES-University of Applied Sciences, Commercial Sciences, Business Management & Applied Informatics, Intentional Staff Week, 2025.
30. Title: Erasmus +, Staff Mobility for teaching and training, South Africa, University of Cape Town, School of Management Studies/Department of Accounting, 2026.

PUBLICATIONS

Dissertations

1. Koukoumialos, S. 2003. *Performance Evaluation and Properties of Kanban-Type Policies for the Coordination of Multi-Stage Production-Inventory Systems*. Ph.D. Dissertation, Department of Mechanical Engineering, University of Thessaly, GREECE.

Book Chapters

1. Koukoumialos, S. and Liberopoulos, G., 2005. An analytical method for the performance evaluation of echelon kanban control systems, in G. Liberopoulos, C.T. Papadopoulos, B. Tan, J.M. Smith, and S.B. Gershwin (eds.), *Stochastic Modeling of Manufacturing Systems: Advance in Design, Performance Evaluation and Control Issues* (expanded reissue of *OR Spectrum*, 127 (2-3), 2005), Springer-Verlag, Berlin, 193-222.

Articles in Scientific Journals

1. Liberopoulos, G. and Koukoumialos, S., 2005. Tradeoffs between base stock levels, numbers of kanbans and production lead times in production-inventory systems with advance demand information, *International Journal of Production Economics*, 96 (2), 213-232.
2. Koukoumialos, S. and Liberopoulos, G., 2005. An analytical method for the performance evaluation of echelon kanban control systems, *OR Spectrum*, 127 (2-3), 339-368.
3. Lagodimos, A.G. and Koukoumialos, S., 2008. "Service performance of simple supply chains under linear rationing," *International Journal of Production Economics*, 112 (2), 869-884.
4. Liberopoulos, G. and Koukoumialos, S., 2008. "On the effect of variability and uncertainty in advance demand information on the performance of a make-to-stock supplier," *MIBES Transactions International Journal*, 2 (1), 95-114.
5. Mourtzas, A., Koufopantelis, L., Vassilakis, P. and Koukoumialos, S. 2009. "A method of identification "easy-to-implement" Six-Sigma projects using a simulation model: The case of service provision improvement in the central postal branch of Chios Island," *Practical Issues in Management & Economics (PRIME)* 2 (2), 74-97.
6. Theodossiou Giorgos, Thanou Eleni ,Leventi Theodossia, Koukoumialos Stelios, Rigas George, 2012. "The dynamics of branding in a small agricultural cooperative," *MIBES TRANSACTIONS International Journal*, 6, 78-79.
7. Blanas G., Koukoumialos S., Kylandri S., 2012. "Reverse Logistics Strategic Antinomies: The Case of the Automotive Sector", *International Journal of Business Science & Applied Management* Vol (7), Issue (3).
8. Vidalis, M., Koukoumialos, S., Geranios, M., 2012. "Performance Evaluation of a merge supply network: a distribution centre with multiple random suppliers," *Computers & Industrial Engineering* Vol (70), 43-58.
9. Vidalis M., Koukoumialos S., Ntio D., Varlas G., 2012. "Performance Evaluation of a merge Supply System with a Distribution Centre, Two Reliable Suppliers, One Buffer and Erlang Lead Times", *International Journal of Business Science & Applied Management* Vol (7), Issue (3).
10. Diamantidis, A., Koukoumialos, S. and Vidalis, M., 2016. "Performance evaluation of a push-pull merge system with multiple suppliers, an intermediate buffer and a distribution center with parallel machines/channels", *International Journal of Production Research* Vol (54), Issue (9)..
11. Diamantidis, A., Koukoumialos, S. and Vidalis, M., 2017. "Markovian analysis of a push-pull merge system with two suppliers, an intermediate buffer and two retailers", *International Journal of Operations Research and Information Systems* Vol (8), Issue (2), 1-35.
12. Vidalis, M., Koukoumialos, S., Diamantidis, A. and Blanas, G., 2019 "Analysis of a two echelon supply chain with merging suppliers, a storage area and a

- distribution center with parallel channels”, *Operational Research An International Journal*, Published: 20 December 2019.
13. Ntio, D., Vidalis M., Koukoumialos S. and Diamantidis A., 2022 “Analysis of a multi echelon supply chain network with Erlang replenishments, (s, S) inventory policies, lost sales and Poisson external demand”, *Int. J. of Services and Operations Management*, Vol (42), No.1.
 14. Varlas G., Vidalis M., Koukoumialos S., and Diamantidis A., 2021 “Optimal inventory control policies of a two-stage push–pull production inventory system with lost sales under stochastic production, transportation and external demand”, *Top-An Official Journal of the Spanish Society of Statistics and Operations Research*, Vol 29(3), 799-832.
 15. Geranios M., Vidalis M., Koukoumialos S., and Diamantidis A., 2022 “Analytical Solution and Optimization of serial supply chains with multiple nodes, lost sales, continuous review replenishment policies, stochastic lead times and external demand”, *Int. J. of Industrial and System Engineering*, Vol (41), No.4.
 16. Kourepis, A., Diamantidis, A. and Koukoumialos, S., 2022 “Exact analysis of a push-pull system with multiple non identical retailers a distribution center and multiple non identical unreliable suppliers with supply disruptions”, *Operational Research*, Vol 22(5), 4801-4827.
 17. Kourepis, A., Diamantidis, A., Koukoumialos, S. and Doios K., 2025 “Modeling and analysis of a multi-product push-pull system with finite buffer and parallel distribution channels”, *TOP-An Official Journal of the Spanish Society of Statistics and Operations Research* (submitted).
 18. Kechagias, G., Diamantidis, A., Koukoumialos, S. and Papadopoulos, C., 2025 “Evaluating the performance of a two stage serial production line with parallel unreliable non-identical deteriorating machines and an intermediate buffer of finite capacity”, *Computers & Industrial Engineering*, Vol 210.
 19. Geranios, M., Koukoumialos, S., and Diamantidis, A., 2024 “Vendor managed inventory vs installation stock replenishment policy in a three-stage supply chain with lost sales, demand and supply uncertainty”, *Int. J. of Business Performance and Supply Chain Modelling* (under second review).
 20. Varlas, G., Koukoumialos, S., Diamantidis, A., Vidalis, M., and Ioannidis, E., 2026 “Analysis of a Serial Supply Network Operating under VMI Policy with Stochastic Replenishment Times and External Demand”, *Mathematics*, 14(10), 1696.
 21. Trakala, G. and Koukoumialos, S., 2025 “Towards a Sustainable Digital Transformation: The role of human resources in public administration and citizen satisfaction. The case of the Municipality of Killeler”, *Sustainable Development, Culture, Traditions Journal*, Volume 8a, 69-81.
 22. Varlas, G., Koukoumialos, S., Diamantidis, A. and Ioannidis, E., 2025 “Analysis of a Three-Echelon Supply Chain System with Multiple Retailers, Stochastic Demand and Transportation Times”, *Mathematics*, 13(19), 3199.

Working Papers

1. Vidalis, M., Koukoumialos, S. and Aggelis, V., 2014. “Inventory performance measures in a multi stage supply chain with stochastic demand and replenishment times: the Erlang and Exponential case,”.

2. Koukourmialos, S. and Liberopoulos, G., 2015. "An analytical method for the performance evaluation of extended kanban control systems,".
3. Vidalis, M. and Koukourmialos, S. and Ntio D., 2015. "Markovian analysis of merge supply networks with Erlang Lead Times,".
4. Vidalis, M., Koukourmialos, S., Geranios, M., 2016. "An analytical method for the Performance Evaluation of a serial supply network".
5. Vidalis, M., Koukourmialos, S., Geranios, M., 2016. "Markovian analysis of merge supply networks with unreliable suppliers and distribution centre,".
6. Vidalis, M., Geranios, M., Angelis, V., and Koukourmialos, S., 2016. "A Markovian approach of multistage supply chains, with Poisson demand, lost sales, continuous review (S_i, s_i) replenishment policies and exponential lead times."
7. Diamantidis, A., and Koukourmialos, S., 2017. "Markovian analysis of a merge push-pull system with two buffers and external demand,".
8. Gerogiannis, B., Koukourmialos, S., and Diamantidis, A., 2017. "A simulation approach for requirements selection quality evaluation in product software development,".
9. Koukourmialos, S., Spanos, A. and Vidalis M., 2018. "Optimal assignment of human resources to a public organization."
10. Varlas, G., Vidalis, M., Koukourmialos, S., and Diamantidis, A., 2018. "Optimal inventory control policies of a two-stage push-pull production inventory system with lost sales under stochastic production, transportation and external demand".
11. Ntio, D., Vidalis, M., Koukourmialos, S., and Diamantidis, A., 2018. "Performance Evaluation of a serial multi-echelon supply network with stochastic external demand, Erlang replenishments, (s,S) inventory policies and lost sales".

Articles in International Conference Proceedings

1. Liberopoulos, G. and Koukourmialos, S. 2001, "Numerical investigation of tradeoffs in production-inventory control policies with advance demand information," in *Proceedings of the 3rd Aegean International Conference on Design and Analysis of Manufacturing Systems*, Tinos Island, Greece, May 19-22, 151-160.
2. Liberopoulos, G., Chronis, A. and Koukourmialos, S., 2003. "Base stock policies with some unreliable advance demand information," in *Proceedings of the 4th Aegean International Conference on Analysis of Manufacturing Systems*, Samos Island, Greece, July 1-4, 77-86.
3. Liberopoulos, G. and Koukourmialos, S. 2008, "On the effect of variability and uncertainty in advanced demand information on the performance of a make-to-stock supplier," in *Proceedings of the 3rd Management of International Business & Economics Systems*, T.E.I. of Larissa, Greece, July 4-5, 282-301.
4. Vidalis, M., Koukourmialos, S. and Aggelis, V., 2008. "Inventory Performance Measures in a three stage Supply Chain with stochastic Demand and Replenishment times: the exponential case," in *Proceedings of the 39th Annual Conference of Italian Operational Research Society on Optimization and*

Logistics in Transportation and Communication Networks, Ischia, Italy, September 8-11.

5. Vidalis, M., Koukoumialos, S., 2012. "Performance Evaluation of a merge system: A distribution centre with multiple random suppliers," 25th European Conference on Operational Research, Vilnius, 8-11 July.
6. Vidalis M., Koukoumialos S., Ntio D., Varlas G., 2012. "Performance Evaluation of a merge Supply System with a Distribution Centre, Two Reliable Suppliers, One Buffer and Erlang Lead Times", 2nd Olympus International Conference on Supply Chains, Katerini, 5-6 October 2012.
7. Blanas G., Koukoumialos S., Kylandri S., 2012. "Reverse Logistics Strategic Antinomies: The Case of the Automotive Sector", 2nd Olympus International Conference on Supply Chains, Katerini, 5-6 October 2012.
8. Vidalis, M., Angelis, V., Koukoumialos, S. and Geranios, M., 2014. "*Stochastic Modeling of multistage supply chain, with Poisson external demand, exponential lead times, lost sales and (S_i, s_i) continuous review replenishment policies,*" 3rd International Symposium & 25th National Conference on Operational Research, Volos, 26-28 June 2014.
9. Vidalis, M., Koukoumialos, S., Diamantidis, A. and Blanas, G., 2015. "*Performance evaluation of a merge supply network: A production centre with multiple different reliable suppliers,*" 10th conference on stochastic models of manufacturing and service operations, Volos, 1-6 June 2015.
10. Vidalis, M., Geranios, M., Koukoumialos, S. and Diamantidis, A., 2016. "*Performance evaluation of a merge supply network with multiple unreliable random suppliers and a distribution centre via matrix analytic methods,*" 28th European Conference on Operation Research, Poznan University of Technology, Poznan, Poland, July 3-6, 2016.
11. Ntio, D., Vidalis M., Koukoumialos S. and Diamantidis A., 2016 "*Markovian Analysis of a multi-echelon tandem supply network under stochastic demand, lost sales and random replenishments: The Erlang case,*" International Symposium on Combinatorial Optimisation 2016, Kent Business School, University of Kent, Canterbury, UK, 1-3 September 2016, 34.
12. Ntio, D., Vidalis M., Koukoumialos S. and Diamantidis A., 2017 "*Performance evaluation of a push merge system with multiple suppliers, an intermediate buffer and a distribution center with parallel channels: The Erlang case*", ODS 2017 organized by AIRO "international conference on optimization and decision science" (included in a special volume of the Springer Proceedings in Mathematics and Statistics), Sorrento, Italy, 4-7 September, 2017.
13. Ntio, D., Vidalis M., Koukoumialos S. and Diamantidis A., 2017 "A matrix analytic method for the performance evaluation of a two echelon split inventory system with stochastic demand and erlang replenishment times", in Proceedings

of the CIE47, International Conference on Computers & Industrial Engineering, Lisboa, Portugal 11-13 October 2017 paper 134.

14. Vidalis M., Varlas G. and Koukoumialos S., 2017 “A Matrix analytic coordination of inventory flows in a three level production/inventory system under VMI logic, stochastic demand and Coxian-2 replenishment times”, in Proceedings of the CIE47, International Conference on Computers & Industrial Engineering, Lisboa, Portugal 11-13 October 2017 paper 59.
15. Koukoumialos, S., Spanos, A. and Vidalis M., 2018 “Optimal assignment of human resources to a public service organization: The case of using quantitative methods in a qualitative problem.” 29th European Conference on Operational Research (EURO 2018) Valencia, Spain, July 8-11 2018, p. 205.
16. Koukoumialos, S., Geranios, M., Vidalis, M. and Diamantidis A., 2019 “Optimal inventory replenishment policies in continuous review multistage supply chains with lost demand and exponential lead times.” 30th European Conference on Operational Research (EURO 2019) Dublin, Ireland, June 23-26 2019.
17. Vidalis, M., Varlas, G., Koukoumialos, S. and Diamantidis A., 2019 “Optimal vendor managed inventory for a three level supply chain with lost demand and Coxian-2 lead times.” 30th European Conference on Operational Research (EURO 2019) Dublin, Ireland, June 23-26 2019.
18. Kouepis, A., Diamantidis, A. and Koukoumialos, S., 2020 “Analysis of a system with non identical unreliable suppliers, multiple non identical retailers and an intermediate distribution center”, ICDSST 2020 on Cognitive Decision Support Systems & Technologies, Zaragoza, Spain, May 27-29 2020.
19. Koukoumialos, S., Papagiannis, G., Vidalis, M. and Diamantidis, A., 2022 “Performance evaluation of a serial push-pull multi-echelon supply chain system with multiple parallel non identical retailers operating under stochastic supply and demand”, 32nd European Conference on Operational Research (EURO 2022) Espoo, Finland, July 3-6 2022.
20. Koukoumialos, S., Kechagias, G. and Diamantidis, A., 2023 “Exact analysis of two workstation lines with parallel deteriorating machines”, POMS2023 International Conference, Paris, France, 18 - 20 July 2023.
21. Koukoumialos, S., Kourepis, A. and Diamantidis, A., 2023 “Analysis of a multi echelon supply chain with parallel processing, multiple part types of products and external demand”, Operations Research 2023 conference, Hamburg, Germany, 29 Aug - 1 Sept 2023 p. 63.
22. Koukoumialos, S., Kechagias, G., Diamantidis, A. and Dimitrakos, T., 2024 “Optimal decision control for a mixed fleet emergency medical services system with dispatch protocols for ALS ambulances using semi-Markov decision processes”, 33rd European conference on Operational Research, Copenhagen, Denmark, 30th June – 3rd July 2024.

23. Trakala, G. and Koukoumialos, S., 2025 “Towards a Sustainable Digital Transformation: The role of human resources in public administration and citizen satisfaction. The case of the Municipality of Killeler”, 2nd Open-Air Cities International Conference: Local and Regional Sustainable Development & Urban Reconstruction, Athens, Greece, February 14-16, 2025 (accepted).

Articles in National Conference Proceedings

1. Koukoumialos, S. and Boulas, K. 2008, “An approximate method for the performance evaluation of Extended Kanban Control Systems”, *in proceedings of the 20th National Conference of Operations Research and Tourism Development*, Spetses Island, Greece, June 19-21, 415-428.
2. Mourtzas, A., Koufopantelis, L., Vassilakis, P. and Koukoumialos, S. 2009. “A method of identification “easy-to-implement” Six-Sigma projects using a simulation model: The case of service provision improvement in the central postal branch of Chios Island,” *in proceedings of the 3rd National Conference on Management and Economics*, Florina, Greece, September 18-20, 354-373.

Presentations in International Conference Proceedings

1. Liberopoulos, G. and S. Koukoumialos, S., 1999. Single-stage kanban-type mechanisms with fixed batch Size, *Proceedings of the 2nd Aegean International Conference on Analysis and Modeling of Manufacturing Systems*, Tinos Island, Greece, May 16-20, p. 299.
2. Liberopoulos, G. and Koukoumialos, S., 2004. An analytical method for the performance evaluation of echelon kanban control systems, *Proceedings of the 27th Multi-Echelon Inventory Conference*, Technische Universiteit Eindhoven, The Netherlands, June 30, p. 7.

PC Experience

Applications

Arena (Rockwell Software), Lindo, Lingo13, Ms Project, Mathematica, SPSS, MAX for Windows (MRP), AutoCAD, ExtendLT, ithink, Cimplest 2.0 Cell Design (Software for Cellular Manufacturing), MATLAB, WINQSB, Expert Choice, Precision Tree, @Risk, Primavera 6, Minitab.

Languages Programming

FORTRAN, MATLAB.