Dr. Manolis Kritikos

Professor

Athens University of Economics & Business

1. Education

- Doctor of Philosophy in Operations Research and Computer Science, Athens University of Economics and Business

- Master of Science in Operations Research and Computer Science, National and Kapodistrian University of Athens

- Bachelor of Science in Mathematics, National and Kapodistrian University of Athens

2. Awards and Scholarships

- 2017, was awarded with the Certificate of Outstanding Contribution in Reviewing by the ELSEVIER science publishing Company for his contribution to the quality of the Expert Systems With Applications Journal (impact factor 8.665).

- 2017-2019 was awarded with certificates for his contribution as a reviewer by the Editors of the journals: European Journal of Operational Research, International Journal of Production Economics, Computers and Operations Research, Engineering Applications of Artificial Intelligence and Transportation Research Part E.

- 1991-1997, Scholarship for Doctoral Studies, Department of Operations Research and Marketing, Athens University of Economics and Business, Athens, Greece

- 1992-1993, Scholarship for Doctoral Studies, School of Management, University of Rotterdam, granted by EDAMBA (European Doctoral Program Association in Management and Business Administration), Rotterdam, Holland

- 1984 Scholarship of excellence by State Scholarships Foundation, highest performance as a senior student, Department of Mathematics, Athens University

3. Research Interests

- Combinatorial Optimization,

- Mathematical programming models

- Artificial intelligent and machine learning

- Design, and analysis of algorithms for Operational Research problems

- Systems performance measurement methodologies

- Mathematics

4. Research grants awarded

- 2020-2021, Action II : Project PostDoc research support, Efficiency Indicators and multi-stage Data Envelopment Analysis models, AUEB

- 2016-2018, Project: Original Scientific Publications (EP-2800-01), AUEB

- 2016-2018, Action I: Project Support Research, Location Routing Problem, AUEB

- 2014-2016, Action I: Project Support Research, Inventory Routing Problem, AUEB

- 2015-2017, Project: Original Scientific Publications, AUEB

- 2012-2015, Project THALES, "Holistic Management of Volatility in Modern Supply Chains of the globalised market" AUEB, NTUA, Aegean University and University of Thessaly

- 2010-2011, Program: Support Research and Infrastructure for the Department of Management Science and Technology, AUEB

- 1987 – 1989, Graduate Research Assistant, General Secretariat for Research and Technology, Hellenic Ministry of Development, Athens, Greece : a) Research Program "Development a Management Information System for the Prefecture of Kefallinia", University of Patras, Patras, b) Research Program "Development an Information System for the General Hospital of Tripoli", University of Patras, c) Research Program "Development an evaluation system for the primary health care,-a documentation system for the health centers", University of Patras, d) Research Program "Development and Evaluation an Integrated System Emergency Health Care", University of Patras, Patras, Greece

5. Academic Experience

- 2024-today, Professor, Department of Management Science and Technology, Athens University of Economics and Business

- 2019-today, Associate Professor, Department of Management Science and Technology, Athens University of Economics and Business

- 2013-2019, Assistant Professor, Department of Management Science and Technology, Athens University of Economics and Business

- 2009 – 2013, Lecturer, Department of Management Science and Technology, Athens University of Economics and Business

- 2011-2013, Adjunct Instructor, Department of Primary Education, University of Athens

- 2002-2009, Adjunct Assistant Professor, Department of Management Science and Technology, Athens University of Economics and Business

- 2007-2009 and 2013-today, Adjunct Instructor, School of Social Science, Hellenic Open University

- 2006-2007, Adjunct Instructor, School of Science and Technology, Hellenic Open University

- 2000-2002, Adjunct Instructor (Lecturer), Department of Management Science and Technology, Athens University of Economics and Business

- 1996-2004, Adjunct Instructor (Lecturer), Department of Operations Research and Marketing / Department of Marketing and Communication, Athens University of Economics and Business

- 1993-1994, 1999-2002, Adjunct Assistant Professor, Department of Informatics, Technological Educational Institute of Athens

- 1994-1999, Adjunct Assistant Professor, Department of Electronic Computer Systems Eng, Technological Educational Institute of Piraeus

- 1994-1999, Adjunct Assistant Professor, Department of Mathematics and Computers, Technological Educational Institute of Chalkis

- 1992-1993, Research Fellow on Combinatorial Optimization and Geographical Information Systems, Department of Management, University of Rotterdam, grant by EDAMBA, European Doctoral Program Association in Management and Business Administration, Rotterdam, Holland.

- 1987-1989, Graduate Research Assistant, Department of Mechanical Engineering, University of Patras

6. Teaching Experience, Courses Taught, Lectures

a) Undergraduate courses:

- 2012-today, Managerial Decision Making, Department of Management Science and Technology / Department Marketing and Communication, Athens University of Economics and Business

- 2012-today, Managerial Decision Making, Erasmus Program, Athens University of Economics and Business

- 2000-2022, Mathematics I / Mathematics for Management I, Department of Management Science and Technology, Athens University of Economics and Business

- 2000-today, Mathematics II, Department of Management Science and Technology, Athens University of Economics and Business

- 2007-2009 and 2013-2023, Quantitative methods for Management, School of Social Science, Hellenic Open University

- 2012-2013, Educational Assessment, Program in Educational Sciences and Education, Athens University of Economics and Business

- 2012-2013, Quality in Education, Program in Educational Sciences and Education, Athens University of Economics and Business

- 2006-2007, Mathematics to Computer Science, School of Science and Technology, Hellenic Open University

- 1996-2005, Management Information Systems, Department of Operations Research and Marketing / Department of Business Administration, Athens University of Economics and Business

- 1991-1999, Introduction to Computer Science, Undergraduate Lectures / Course, Department of Operations Research and Marketing, Athens University of Economics and Business

- 1993-2002, Programming Languages courses (BASIC, FORTRAN, PASCAL, C, VISUAL BASIC), Technological Educational Institute of Athens, Technological Educational Institute of Piraeus, Technological Educational Institute of Chalkis

- 1998-1999, Production Management, Undergraduate Lectures, Department of Operations Research and Marketing, Athens University of Economics and Business

- 1997-1999, Decision Support Systems, Undergraduate Lectures, Department of Operations Research and Marketing, Athens University of Economics and Business

- 1991-1996, Quantitative Methods for Operations Research, Undergraduate Lectures, Department of Operations Research and Marketing / Department of Business Administration, Athens University of Economics and Business

- 1987-1989, Operations Research I, and II, Undergraduate Lectures, Department of Mechanical Engineering, University of Patras

b) Graduate courses:

- 2011-today, Operations Research / Managerial Problem Solving, MBA full time program, Athens University of Economics and Business

- 2015-today, Managerial Decision Making, M.Sc. Full Time program, Management Science and Technology, Athens University of Economics and Business

- 2016-today, Managerial Decision Making, M.Sc. Part Time program, Management Science and Technology, Athens University of Economics and Business

- 2018-today, Introduction to Operations Research, M.Sc. Public Policy & Public Management, Athens University of Economics and Business

- 2019-2020, Logistics, MSc in Services Management, Part Time program, Athens University of Economics and Business

- 2017-today, Advanced Quantitative Methods for Managers (MBA60), Hellenic Open University.

- 2011-2015, and 2016- today, Management Information Systems and Decision Making in Learning and Administration, M.Sc. Program, Informatics in Education, University of Athens

- 2011-2015, Use of the Internet in Education, M.Sc. Program, Informatics in Education, University of Athens

- 2001-2004, Operations Management, Graduate Program in New Technology and Operations Management, University of Athens and Hellenic Mathematical Society

- 1996-1999, Simulation, Graduate Lectures, MBA Program, Athens University of Economics and Business

- 1996-1999, Quantitative Methods for Operations Research, Graduate Lectures, MBA Program, Athens University of Economics and Business

7. Industrial Experience – Consulting Experience

- 2021- today, Director Management Science Laboratory, Athens University of Economics and Business

- 2000-today, Research staff member, Management Science Laboratory, Athens University of Economics and Business

- 2002-2005, Advisor to the Greek Information Society Co, Athens, Greece

- 1999-2003 Consultant-evaluator to the Greek Ministry of Development. Evaluator in 68 cases of Information Systems procurement for Hellenic Ministries and Public Organizations

- 1989-1990, Military service: Expert scientist / Programmer, Ministry of Defense, Athens, Greece.

8. Professional - Academic Activities - Professional Societies

- 2020-today, President of the university student club of AUEB.

- 2020-today, Deputy president of the Management Science and Technology. department, AUEB.

- 2022-today, Associate Editor of the Journal of Statistics and Management Systems (JSMS).

- 2021-2023, Vice President, Hellenic Mathematical Society.

- 2019-2021, Associate Editor of the TARU Journal of Organizational Behavior & Analytics (TJOBA).

- 2015-2021, General Secretary, Mathematical Society of South Eastern Europe (MASSEE).

- 2011-2015, General Secretary, Hellenic Mathematical Society (EME)

- 2004-2008, Member the Board of Directors of the Hellenic Mathematical Society

- 2005-Today, Editor in Chief of the Scientific Journal Astrolavos, a Journal of the Hellenic Mathematical Society

- 2003-Present, Member of the Editorial Board, Hellenic Mathematical Review, A Journal of the Hellenic Mathematical Society

Referee:

- The International Journal of Management Science (OMEGA)

- The International Journal of Production Economics (IJPE)

- Computers and Operations Research (C&OR)

- Expert Systems With Applications (ESWA)

- The Journal of the Operational Research Society (JORS)

- The International Transactions in Operational Research (ITOR)

- International Journal of Sustainable Transportation (IJST)

- Journal of Industrial and Production Engineering (JIPE)

- The Transportation Research Part E(TRE)

- Engineering Applications of Artificial Intelligence

- The International Journal on Engineering.

- Central European Journal of Operations Research (CJOR)

- Operations Management Research (OMRA)

- Operational Research: An International Journal

- Data Technologies & Applications

- Bavarian Journal of Applied Sciences (BJAS)

- Scientia Iranica Journal

- Digital Signal Processing Journal

- International Journal of Mathematics and Mathematical Sciences

- Mathematical Review

- Astrolavos

- Member of: The Hellenic Mathematical Society (HMS), and The Greek Computer Society (GCS)

- Chair of the Organizing Committee and member of the Programme Committee of the LMDE2023 International Congress)

- 2023 Member of the programme committee of the 38th National Conference of the Hellenic Mathematical Society, Serres

- 2022 Member of the programme committee of the 37th National Conference of the Hellenic Mathematical Society, Nafplion

- 2019 Member of the programme committee of the 36th National Conference of the Hellenic Mathematical Society, Larissa

- 2018 Member of the programme committee of the 35th National Conference of the Hellenic Mathematical Society, Athens

- 2017 Member of the programme committee of the 34th National Conference of The Hellenic Mathematical Society, Lefkada

- 2016 Member of the programme committee of the 33rd National Conference of the Hellenic Mathematical Society, Xania

- 2015 Member of the programme committee of the 32nd National Conference of the Hellenic Mathematical Society, Kastoria

- 2014 Secretary General of the Organizing Committee of the 31st National Conference of the Hellenic Mathematical Society, Beria

- 2014 Member of the programme committee of the 31st National Conference of the Hellenic Mathematical Society, Beria

- 2013 Secretary General of the 30th Organizing Committee of the National Conference of the Hellenic Mathematical Society, Karditsa

- 2013 Member of programme committee of the 30th National Conference of the Hellenic Mathematical Society, Karditsa

- 2012 Secretary General of the Organizing Committee of the 29th National Conference of the Hellenic Mathematical Society, Kalamata

- 2012 Member of the programme committee of the 29th National Conference of the Hellenic Mathematical Society, Kalamata

- 2011 Deputy Secretary General of the Organizing Committee of the 28th National Conference of the Hellenic Mathematical Society, Athens

- 2011 Member of the programme committee of the 28th National Conference of the Hellenic Mathematical Society, Athens

- 2010 Member of the programme committee of the 27th National Conference of the Hellenic Mathematical Society, Chalkida

- 2009 Member of the programme committee of the 26th National Conference of the Hellenic Mathematical Society, Thessaloniki

- 2008 Member of the programme committee of the 25th National Conference of the Hellenic Mathematical Society, Bolos

- 2007 Member of the programme committee of the 24th National Conference of the Hellenic Mathematical Society, Kozani

- 2006 Member of the programme committee of the 23nd National Conference of the Hellenic Mathematical Society, Patra

- 2005, Member of the Organizing Committee of the 22nd National Conference of the Hellenic Mathematical Society, Lamia

- 2005-present, Member of the Scientific Board of the Centre for Mathematical and Educational Software of Hellenic Mathematical Society, Athens, Greece.

- Secretary General of the Organizing Committee and member of the Programme Committee of the MASSEE International Congress on Mathematics - MICOM-2015, September, 22–26, Athens

- Member of the Organizing Committee of the 32nd Balkan Mathematical Olympiad (BMO) May 3- May 8, 2015, Athens-Hellas.

- Member of the Organizing Committee (Olympiad), της South Eastern European Mathematical Olympiad for University Students (SEEMOUS 2013), 21-25 March, Athens-Hellas,

- Chair of the session: DEA applications, 27th European Conference on Operational Research, EURO2015, Glasgow, United Kingdom.

- Member of the Chairmanship in the MASSEE International Congress on Mathematics - MICOM-2015, 26 September, Athens

- Member of the Chairmanship of the plenary session in the 31st Congress of the Hellenic Mathematical Society (2014), speaker Prof. Marianna Tzekaki, theme of the speech: "Mathematical education in the modern era" and speaker Prof. Ferdinando Arzarello, theme of the speech: "From Socrates to Sherlock Holmes: cultural, cognitive and didactical tools for pursuing the logic of inquiry in the classroom".

- Organization WorkShop, theme: «Holistic Management of Volatility in Modern Supply Chains of the globalised market», 31st Congress of the Hellenic Mathematical Society (2014).

- Member of the Chairmanship of the plenary session in the 30th Congress of the Hellenic Mathematical Society (2013), speaker Prof. N. Xristodoulakis , theme of the speech: "Mathematics and Economic Development: An exciting relationship".

9. Publications:

9.1. Dissertations:

- 1998, Doctoral Dissertation, "Mathematical models and algorithmic approaches for routing problems using Geographical Information Systems", Department of Operations Research and Marketing, Athens University of Economics and Business, Athens, Greece.

- 1987, Master Thesis, "The Mathematical Library NAG", Graduate Program in Operations Research and Computer Science, University of Athens, Athens, Greece.

9.2. Papers published in Refereed Journals,

1. Koronakos Gregory, Kritikos Manolis, Sotiros Dimitris, A common weights multiplicative aggregation approach for composite indicators: the case of Global City Competitiveness Index, Expert Systems with

Applications, Volume 242, 2024, 122543, ISSN 0957-4174, https://doi.org/10.1016/j.eswa.2023.122543.

2. Kritikos Manolis N., Metzidakis Theocharis, Ioannou George, The cumulative vehicle routing problem with arc time windows, Expert Systems with Applications, Volume 240, 2024, 122447, ISSN 0957-4174, https://doi.org/10.1016/j.eswa.2023.122447.

3. Kritikos Manolis N. & Ioannou George (2023) Valid inequalities for the non-unit demand capacitated minimum spanning tree problem with arc time windows and flow costs, International Journal of Production Research, DOI: 10.1080/00207543.2023.2276818,

https://doi.org/10.1080/00207543.2023.2276818

4. Eric Tzimas and Manolis Kritikos, (2022), Testing the generalization of automated real estate property evaluation models, Journal of Information Systems & Operations Management, 16, 2, 273-283, https://web.rau.ro/websites/jisom/Vol.16%20No.2%20-%202022/JISOM%2016.2_273-282.pdf

5. Koronakos, G., Sotiros, D., Despotis, D.K., Kritikos, M.N. (2022), Fair efficiency decomposition in network DEA: A compromise programming approach, Socio-Economic Planning Sciences, 79, 2022, 101100, ISSN 0038-0121, https://doi.org/10.1016/j.seps.2021.101100

6. Kritikos Manolis N. & Ioannou George (2021) The capacitated minimum spanning tree problem with arc time windows, Expert Systems with Applications, Volume 176, 114859, ISSN 0957-4174,

7. Kritikos, M., and Ioannou, G. (2019), Two heuristics for the capacitated minimum spanning tree problem with time windows, *Journal of the Operational Research Society*, 70, NO. 4, 555–567, DOI: 10.1080/01605682.2018.1447255,

8. Kritikos, M. (2018), A metafrontier analysis for performance evaluation of public Schools in Athens city-centre, *Journal of Statistics & Management Systems*, 21, 7, 1251-1272.

9. Lappas, P. Kritikos, M. and Ioannou, G. (2018), Hybrid Evolutionary Optimization Algorithm for the Inventory Routing Problem , *International Journal of Operations and Quantitative Management*, 24, 2, 75-115.

10. Kritikos, M., Kallivokas, D., Malafekas, A, and Metzidakis, T. (2018), An introduction to decision making using the elimination method of Fourier-Motzkin, *Journal of Statistics & Management Systems*, 21,2,273-285.

11. Lappas, P. and Kritikos, M. (2018) , Teaching and Learning Numerical Analysis and Optimization: A Didactic Framework and Applications of Inquiry-based Learning, *Higher Education Studies*, 8, 1, 42-57.

12. Kritikos, M. (2017) , A full ranking methodology in data envelopment analysis based on a set of dummy decision making units, *Expert Systems with Applications*, **77**, 211-225.

13. Kritikos, M., and Ioannou, G. (2017) , A greedy heuristic for the capacitated minimum spanning tree problem, *Journal of the Operational Research Society*, 68, 1223-1235.

14. Lappas, P., Kritikos, M., and Ioannou, G. (2017), A two-phase Solution Algorithm for the Inventory Routing Problem with Time Windows. *Journal of Mathematics and System Science*, 7, 9, 237-247

15. Kritikos, M. Kallivokas, D. (2017), The elimination method of Fourier-Motzkin in Linear Programming, *Journal of Information Systems & Operations Management*, 11, 2, 305-309

16. Kritikos, M., and Ioannou, G. (2013), The heterogeneous fleet vehicle routing problem with overloads and time windows, *International Journal of Production Economics*, 144, 68-75

17. Kritikos, M., and Ioannou, G. (2010), The balanced cargo vehicle routing problem with time windows, *International Journal of Production Economics*, 123, 42-51

18. Kritikos, M., Markellos, R. and Prastacos G. (2010), Corporate Real Estate Analysis: Evaluating Telecom Branch Efficiency in Greece, *Applied Economics*, 42, 1133-1143

19. Ioannou, G., Kritikos, M. and Prastacos, G. (2008), An Assignment based heuristic for Vehicle Routing with Time Windows, *Operational Research: An International Journal*, 8, 2, 219-233

20. Kritikos M. and Ioannou, G.(2007), Sequencing material handling equipment in production facilities, *The International Transactions in Operational Research*, 14, 4, 291-307

21. Ioannou, G., and Kritikos, M.(2004), A synthesis of assignment and heuristic solutions for vehicle routing with time windows, *Journal of the Operational Research Society*, 55, 2-11

22. Ioannou, G., and Kritikos M. (2004), Optimization of Material Handling in Production and Warehousing Facilities, *Operational Research: An International Journal*, 4, 317-331.

23. Ioannou, G., Kritikos, M. and Prastacos, G. (2003), A problem generator-solver heuristic for vehicle routing with soft time windows, *Omega-The International Journal of Management Science*, 31, 41-53

24. Ioannou, G., Kritikos, M. and Prastacos, G.(2002), Map-Route: a GIS – based decision support system for intra-city vehicle routing with time windows, *Journal of the Operational Research Society*, 53,842-854

25. Ioannou, G., Kritikos, M. and Prastacos, G. (2001), A greedy look-ahead heuristic for the vehicle routing problem with time windows, *Journal of the Operational Research Society*, 52, 523-537

9.3 Publications in international and Greek volumes

1. Kritikos, M. and Lappas, P. (2020), Computational Intelligence and Combinatorial Optimization in Transportation Science, chapter in Recent Advances in Core Technologies in Informatics – Selected Papers in Honor of Professor Nikolaos Alexandris, G. Tsihrintzis, M. Virvou, L.C. Jain (eds), ISSN: 2662-3447, Berlin, Springer Learning and Analytics in Intelligent Systems.

2. Lappas, P., Kritikos, M., Computer-based Cognitive Tools in Mathematics and Operations Research: The Process of Scientific Inquiry, *ERPA International Congresses on Education* , Book of Proceedings, 207-212, Athens, July, 2015

3. Kritikos M. and Ioannou, G., (2007) A non parametric method for the multicriteria vehicle routing problem with time windows, *in Decision Systems with Multicriteria*, N. Matsatsinis and K. Zopounidis (Editors), *Klidatithmos*, pp 41-54, 2007

9.4. Other publications and papers published in Greek Journals:

- Tzimas, D., Kritikos, M., (2019), The future of Logistics, the transformation of the supply chain through artificial intelligence, *Astrolavos*, 31, 2019.

- Raftopoulos, B., Kritikos, M., The Contribution of the Data Envelopment Analysis to Parametric Methods, *Astrolavos*, **26**, 99-109, 2016

- Lappas, P. and Kritikos, M., WebQuest Scenario Planning for Numerical Solving Equation subject using Pseudocode , MATLAB, CMAP, and Rubrics, *Astrolavos*, **19**, 59-76, 2013

- Xoustoulakis, M., Kritikos, M., "Approaching the role of Internal Business Environment in Decision on Adoption of Technological Innovations: The case of Modern applications of ELearning" *Astrolavos,*, Special Issue, 7th Student Conference of Management Science and Technology, AUEB, 13, 13-26, 2010

- Kritikos, M., Ioannou, G., The Heterogeneous Vehicle Routing Problem with Time Windows, *Astrolavos*, **9**, 84-92, 2008

- Kritikos M. and Ioannou, G., and Prastacos, G., An application of Data Envelopment Analysis to Vehicle Routing Problem, *Astrolavos*, Hellenic Mathematical Society, **6**, pp 136-147, 2006.

- Kritikos M., Dimakos, G., and Malafekas, A., Assessment models for Educational Units, *Mathematical Review*, Hellenic Mathematical Society, **59**, pp 77-94, 2003

9.5. Presentations in Conferences after review (with or not Proceedings:

1. Metzidakis T., Tzimas E., and Kritikos M. (2023). Artificial Intelligence in Routing Optimization: Open questions in Deep and Machine Learning, LMDE2023, June 19-23, Athens, Greece.

2. G Koronakos, M. N. Kritikos (2021). Measuring the Global City Competitiveness Index 5th International Scientific Conference on IT, Tourism, Economics, Management and Agriculture, ITEMA 2021, October 21, 2021.

3. Metzidakis Th., Repoussis P., Kritikos M., Ioannou G., (2021), A Hybrid Mat-Heuristic Algorithm for the Capacitated Location-Routing Problem, 22nd IFORS Conference of the International Federation of Operational Research Societies (IFORS), South Korea

4. Nikolakakis, S.,Lappas. P., Kritikos, M. (2021), A biologically inspired meta-heuristic for solving large-scale production routing problems, 22nd Conference of the International Federation of Operational Research Societies (IFORS), South Korea

5. Xanthopoulos G. ,Lappas P., Kritikos, M. (2021), Learn-heuristic algorithm for large-scale combinatorial optimization problems: The case of the Travelling Salesman Problem, 22nd Conference of the International Federation of Operational Research Societies (IFORS), South Korea.

6. Metzidakis Th., Repoussis P., Kritikos M., Ioannou G., (2021), Solving the Capacitated Location-Routing Problem via an Iterative Matheuristic Algorithm, 31th EURO European Conference on Operational Research, Athens

7. Xanthopoulos G. ,Lappas P., Kritikos, M. (2021), A machine learning approach to verify the effectiveness of multi-parameter evolutionary optimization algorithms, 31th EURO International Conference on Operational Research (EURO).

8. Metzidakis Th., Repoussis P., Kritikos M., Ioannou G., (2021), A Heuristic Branch and Cut algorithm for The Location Routing Problem, 17th Student Conference of Management Science and Technology, Athens

9. Xanthopoulos G., Deligiannis P., Kritikos, M. (2021), Hybrid Mutation Operator in Genetic Algorithms: Using Traveling Salesman Problem as a Case, 17th Conference of the Department of Management Science and Technology.

10. Metzidakis, Th., Repoussis, P., Kritikos, M., Ioannou, G. (2019), A Two-Phase Branch and Cut Algorithm for the Capacitated Location Routing Problem, _30th EURO International Conference on Operational Research_, Dublin.

11. Nikolakakis, S., Lappas, P., Kritikos, M., Ioannou, G. (2019), A Hybrid Evolutionary Optimization Algorithm for the Production Routing Problem, _30th EURO International Conference on Operational Research_, Dublin.

12. Xanthopoulos, C-G., Kritikos, M.(2019), Mutation Operators of Genetic Algorithms: Using Traveling Salesman Problem as a Case, _16th DMST student conference_, Athens.

13. Metzidakis, Th., Repoussis, P., Kritikos, M., Ioannou, G. (2019), A two-phase algorithm for the location routing problem, _16th DMST student conference_, Athens.

14. Xanthopoulos, C-G., Kritikos, M.(2019), The performance of mutation operators in Genetic Algorithms, _11th International Week Dedicated to Maths_ , XELEXPO, Thessaloniki.

15. Kritikos, M. and Ioannou G. (2018), Solving minimum spanning tree problems with capacities and arc time windows, _MASSEE International_

Congress on Mathematics, MICOM 2018, September 2018, Nicosia, Cyprus

16. Metzidakis, Th., Repoussis, P., Kritikos, M., and Ioannou, G.(2018), A clustering solution approach for the Capacitated Location Routing Problem, *MASSEE International Congress on Mathematics, MICOM 2018*, September 2018, Nicosia, Cyprus

17. Metzidakis, Th., Repoussis, P., Kritikos, M., and Ioannou, G.(2018), Branch and Cut solution approach for the Capacitated Location Routing Problem, *29th EURO International Conference on Operational Research*, Valencia.

18. Metzidakis, Th., Repoussis, P., Kritikos, M., and Ioannou, G.(2018), The robust location routing problem, *XIII BALCOR, Balkan Conference on Operation Research*, Belgrade.

19. Kritikos, M.(2018), The capacitated minimum spanning tree problem and its variants, *First Congress of Greek Mathematicians FCGM*, Athens.

20. Kritikos, M.(2018), The minimum spanning tree problem, *10th International Week Dedicated to Maths*, Thessaloniki.

21. Tsagaris, G., Kritikos, M., and Metzidakis Th. (2018), A literature review of the vehicle routing problem, 10th International Mathematical Week, Thessaloniki.

22. Metzidakis, Th., Repoussis, P., Kritikos, M. and Ioannou, G. (2018), The facility location and vehicle-routing problem, 15th DET student conference, AUEB

23. Tsagaris, G., Kritikos, M., and Metzidakis, Th. (2018), A new heuristic method based on the constrained search algorithm for an inventory routing problem, 15th DET Student Conference, AUEB.

24. Lappas, P., Kritikos, M., Ioannou, G., and Burnetas, A.(2017), A combination of Monte-Carlo simulation and a VMS meta-heuristic

algorithm for solving the Stochastic Inventory Routing Problem with Time Windows, _ODS2017_, September, Sorrento.

25. Metzidakis, Th., Repousis, P., Kritikos, M. and Ioannou, G. (2017), A literature review of facility location and vehicle routing Problems, 34th Conference of the Hellenic Mathematical Society, November 3-5, Lefkada.

26. Metzidakis, Th. Kritikos, M. (2016), Business risk assessment using modern simulation software, 33rd Conference of the Hellenic Mathematical Society, November 4-6, Chania.

27. Rautopoulos, V., Kritikos, M. (2016), Evaluation of Greek groups in the construction industry in the period of economic crisis, 33rd Conference of the Hellenic Mathematical Society, November 4-6, Chania.

28. Malafekas, A., and Kritikos, M. (2016), The contribution of EME conferences to the formation of an efficient school, 33rd Conference of the Hellenic Mathematical Society, November 4-6, Chania.

29. Kritikos, M.(2015), Ranking in Data Envelopment Analysis using a set of dummy Decision Making Units, _27th EURO International Conference on Operational Research_, Glasgow.

30. Lappas, P., Kritikos, M., Ioannou, G.(2015), A Genetic Algorithm for the Inventory Routing Problem with Time Windows, _27th EURO International Conference on Operational Research_, Glasgow.

31. Lappas P, Kritikos E, Ioannou G.(2015), Classic Metaheuristics and Evolutionary Optimization Algorithms for Routing Problems: A Computational Study, _4th International Eurasian Conference on Mathematical Sciences and Applications_, 31 August - 3 September, Athens, Greece.

32. Lappas, P., Kritikos M.(2015), The Supply Chain Network Design Problem: Quantitative Approaches to managing Operational and

Disruption Risks, *MICOM2015, International Congress on Mathematics*, MASSEE, Athens, September.

33. Lappas, P., Kritikos, M. and Ioannou, G.(2015), Metaheuristics Algorithms for Routing Problems: From the Travelling Salesman Problem to the Inventory Routing Problem. *MICOM2015, International Congress on Mathematics*, MASSEE, Athens, September.

34. Lappas, P., Kritikos, M.(2015), Computer-based Cognitive Tools in Mathematics and Operations Research: The Process of Scientific Inquiry, *ERPA International Congresses on Education* , July, Athens.

35. Lappas, P., Kritikos, M., Xaniotaki, C. Z., Lardopoulou, C.T., Gotsi A. (2015) Scenario of Involvement in the Scientific Process: Numerical Solving of Equations and Systems of Equations Using Cognitive Tools, Proceedings of the 12th Student Conference of the Management Science and Technology Department, AUEB, May, Athens.

36. Lappas, P., Kritikos, E., Ioannou, G., Bournetas, A. (2014), The Inventory Routing Problem, Proceedings of the 31st Conference of the Hellenic Mathematical Society, Veria, Greece, November 7-9, p. 583-595.

37. Kritikos, M., Lappas, P., Malafekas A., (2014), "Results of Processing Questionnaires of the 30th National Conference of the HMS", proceedings of the 31st National Conference of the Hellenic Mathematical Society, technical report

38. Lappas, P. and Kritikos, M. (2013), Scenario of Involvement in the Scientific Process for the Applied Numerical Analysis course using MATLAB, CMAT and WebQuest, 30th Conference of the Hellenic Mathematical Society, Karditsa, 579-591.

39. Kritikos, M. Kallivokas, D., and Malafekas, A. (2013), Systems of Inequalities and an Introduction to Decision Making, 30th Conference of the Hellenic Mathematical Society, 526-538.

40. Kritikos, M. and Ioannou, G.(2012), The capacitated minimum spanning tree problem with time windows, *25th European Conference on Operational Research*, EURO 2012, 8-11 July, Vilnius, Lithuania

41. Kritikos, M. and Ioannou, G.(2012), A greedy heuristic for the unit demand capacitated minimum spanning tree problem with time windows, *International Congress on Mathematics, MICOM 2012*, MASSEE, Mathematical Society of South Eastern Europe,19-23 September, Sarajevo, Bosnia and Herzegovina.

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2) General Editor of the CALCULUS & ITS APPLICATIONS Edition of Goldstein, Lay, Schneider, and Asmar of the Pearson publishing house in the Greek language entitled Differential and Integral Calculus, Theory and Applications by the Broken Hill publishing house, 2021

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*   Kritikos, M., Management Information Systems, *Department of Operations Research and Marketing*, Athens University of Economics and Business 2003

*   Analytical Programs for Computer Sciences courses in the Secondary Technical Schools, first round, co- author, *Pedagogical Institute (ed)* , 1999

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