#### **IOANNIS C. GIANNIKOS**

#### 1. PERSONAL INFORMATION

<u>Address</u>: Office: Dept of Business Administration, University of Patras, Patras 26500, Greece Home: Alkimou 18, Proasteio Patron, Patras, 26443, Greece

Telephone: Office:+30 2610969846, Mobile:+30 6937 120161

e-mail: I.Giannikos@upatras.gr

Date of Birth: 6 August 1967

Nationality: Greek

Family Status: Married, 2 sons

#### 2. EDUCATION

#### 1990-1993 London School of Economics and Political Science

PH.D IN OPERATIONAL RESEARCH

<u>THESIS TITLE</u>: «Location of Single and Multiple Obnoxious Facilities: Algorithms for the Maximin Criterion under Different Norms»

#### 1989-1990 London School of Economics and Political Science

MASTER OF SCIENCE (MSC) IN OPERATIONAL RESEARCH (WITH DISTINCTION)

<u>MAIN SUBJECTS</u>: Operational Research Techniques, Simulation, Mathematical Programming, Combinatorial Optimization, Operational Research Methodology, Systems Analysis

DISSERTATION: Graphical Solution Techniques for the Location of Undesirable Facilities

# 1985-1989 Athens University of Economics and Business BSc. Hons. IN STATISTICS AND COMPUTER SCIENCE (FIRST CLASS) Average Grade: 92.8%

#### 1982-1985 Herakleion Attikis 1<sup>st</sup> High School

<u>GRADE</u>: 20/20 (EXCELLENT) 4 equivalent British A Levels in Mathematics, History, Sociology & Modern Greek Literature

#### 3. **TEACHING EXPERIENCE**

#### 3.1 UNDERGRADUATE LEVEL

### University of Patras, Department of Business Administration as an Assistant Professor from 2001 until 2009, as an Associate Professor from 2009 until Feb 2018 and as a Professor since Feb 2018

- Statistics I and Statistics II (compulsory courses), from 2001 until 2004.
- Operational Research I (compulsory course), from 2001 until 2005.
- Operational Research (compulsory course) since 2005.
- Operational Research II (elective course), from 2001 until 2005.
- Further Operational Research Techniques in Decision Making (elective course), since 2005.
- Simulation of Business Processes (elective course), since 2002.

#### Hellenic Open University as Tutor

• Quantitative Methods (compulsory course), since 2005.

### Athens University of Economics and Business, Department of Accounting and Finance as Adjunct Professor

- Mathematics (compulsory course) from 1999 until 2001.
- Statistics (compulsory course) from 1999 until 2001.
- Mathematics of Finance (compulsory course) from 1999 until 2001.

#### Hellenic Air Force Academy as Visiting Lecturer

• Operational Research (compulsory course), from 1997 until 2000.

### Higher Technological Educational Institute of Athens, School of Economics and Business Administration as Adjunct Lecturer

- Operational Research I (compulsory course), from 1997 until 2001.
- Operational Research II (compulsory course), from 1997 until 2001.

#### 3.2 POSTGRADUATE LEVEL

### University of Patras, Department of Business Administration as an Assistant Professor from 2001 until 2009 and as an Associate Professor since 2009

- Quantitative Methods (compulsory course), MBA Programme, since 2004.
- Operations Management (elective course), MBA Programme, since 2005.

#### Athens University of Economics and Business, Department of Economics as Visiting Lecturer

• Multicriteria Approaches in Decision Making (elective course), Postgraduate Programme in Applied Economics and Finance in Strategic Decision Making, academic years 2004-2005, 2005-2006, 2007-2008 and 2013-2014.

#### University of Piraeus, Department of Industrial Management, as Visiting Lecturer

• Analytical Methods (part of course), Postgraduate Programme in Logistics, academic years 1999-2000, 2000-2001, and since 2008-2009.

#### 3.3 TEACHING EXPERIENCE IN NON GREEK INSTITUTIONS

#### University of Westminster (London, UK), as Postdoctoral Researcher

• Operational Research (compulsory course), School of Computer Science and Information Systems Engineering from 1993 until 1995.

#### London School of Economics and Political Science as Teaching Assistant

• Taught classes in Basic Operational Research Techniques for Masters level students from 1990 until 1993. Main topics included Stock Control, Queuing Theory, Markov Chains, Game Theory and Mathematical Programming.

#### City University Business School (London, UK) as Teaching Assistant

• Taught classes in Quantitative Methods for the part-time MBA course from 1990 until 1991.

#### 3.4 SUPERVISION OF THESES AND DISSERTATIONS

- Supervised the PhD thesis of Dr P. Mitropoulos at the Department of Business Administration of the University of Patras. The thesis was titled "Multicriteria Analysis in Decision Making for the Location of Facilities and the Allocation of Resources". It was completed successfully in June 2007. During our cooperation, Dr Mitropoulos was selected to attend the EURO Winter Institute on Location and Logistics which took place in Portugal from 27 January until 10 February 2007. His selection was the result of a European competition among young researchers working in the field of Locations Analysis.
- Supervised the PhD thesis of Dr N. Mastroyannis at the Department of Business Administration of the University of Patras. The thesis was titled "Methodological Framework for the Extraction of Knowledge from Data using Techniques of Multicriteria Analysis". It was completed successfully in September 2009.
- Currently supervising five PhD theses at the Department of Business Administration of the University of Patras. The theses' topics are in the general area of Location Analysis or Multicriteria Decision Making.

- Member of the advisory committee of several PhD theses which have either been completed or are currently in progress at the Department of Business Administration of the University of Patras, the Department of Engineering Sciences of the University of Patras and the Department of Informatics of the Athens University of Economics and Business.
- Supervision of undergraduate and postgraduate dissertations at the Department of Business Administration of the University of Patras since 2003.
- Supervision of final year dissertations at the Higher Technological Educational Institute of Athens from 1997 until 2001.
- Supervision of undergraduate and postgraduate dissertations at the School of Computer Science and Information Systems Engineering from 1993 until 1995.

#### 4. AWARDS-DISTINCTIONS

- Scholarship by the "Alexander S. Onassis" Public Benefit Foundation, Greece to complete Ph.D. Thesis (1990-1993).
- Bursary by the London School of Economics (1990).
- Financial prizes from Greek Scholarships Foundation for excellent performance in each academic year during undergraduate studies (1985-1988).
- Participation in the 12th European Summer Institute on Locational Analysis, 1995. I was selected as single representative of the British OR Society and I was subsequently also selected by EURO, who evaluated the proposals of its member national OR Societies and selected the 15 best entries on a European level.
- Invitation to lecture at the EURO Winter Institute on Location and Logistics which took place in Portugal from 27 January until 10 February 2007.
- Member of the Coordination Board of the European Working Group in Location Analysis (EWGLA), a group of European researchers active in the field of Location Analysis. The group currently includes more than 200 and is operating under the auspices of the Association of European Operational Research Societies (EURO)
- Member of the Editorial Advisory Board of Computers and Operations Research journal.

#### 5. CURRENT RESEARCH INTERESTS

- The development of a modeling framework that combines elements of Data Envelopment Analysis (DEA) and Location Analysis for locating facilities taking into account operational efficiency as well as locational aspects.
- The use of capabilities offered by Geographic Information Systems to develop new models that adequately address the critical issues in realistic problems in the field of Location Analysis.
- The development of Multicriteria Analysis models for location of facilities and the allocation of resources such that the demand for certain services is adequately covered.
- The combination of Multicriteria Analysis techniques and Data Mining algorithms to develop methodologies for classification and clustering problems.

#### 6. **PROFESSIONAL MEMBERSHIPS**

- Member of the Hellenic Operational Research Society
- Member of the British Operational Research Society (UK)
- Member of the Institute for Operations Research and the Management Sciences INFORMS (USA)

#### 7. PUBLICATIONS

#### 7.1 REFEREED BOOKS

• "Mathematical Programming", textbook for the Informatics course of the Hellenic Open University. The book has been completed and accepted by the referees and will be included in the program of study in the near future

#### 7.2 OTHER BOOKS

- "Mathematical Methods in Economics: Theory and Applications", Part A (with A. Xepapadeas), Gutenberg publications, Athens 2007.
- "Mathematical Methods in Economics: Theory and Applications", Part B (with A. Xepapadeas), Gutenberg publications, Athens 2007.

#### 7.3 CHAPTERS IN BOOKS

• G. Bruno and I. Giannikos, "Location and GIS", in G. Laporte, S. Nickel and F. Saldanha da Gama (ed.), *Location Science*, Springer 2015

#### 7.4 PAPERS IN REFEREED JOURNALS

- 1. Nearchou, I. Giannikos and A. Lagodimos, "Multi-site and multi-shift personnel planning with setup costs", to appear in *IMA Journal of Management Mathematics*.
- 2. S. Georgantzinos and I. Giannikos, "A modeling framework for incorporating DEA efficiency into set covering, packing and partitioning formulations", *International Transactions in Operational Research,* available online May 2017, DOI: 10.1111/itor.12409
- 3. O. Giannakitsidou, A. Tsagkanos and I. Giannikos, "Correlation of Municipal Solid Waste Production and Treatment with Socioeconomic Indexes", *International Journal of Environment and Waste Management*, 18:4, 303-316, 2016.
- 4. A. Nearchou, I. Giannikos and A. Lagodimos, "Efficient greedy algorithms for economic manpower shift planning", *Engineering Optimization*, 47:1, 36-54, 2015.
- 5. N. Pettas and I. Giannikos, "Evaluating the delivery performance of public spending programs from an efficiency perspective", *Evaluation and Program Planning*, 45:1, 40-50, 2014.
- 6. A. Nearchou, I. Giannikos and A. Lagodimos, "A genetic algorithm for the Economic Manpower Shift Planning problem", *Cybernetics and Systems*, 45:5, 439-464, 2014.
- 7. A. Panteli, B. Boutsinas and I. Giannikos, "On set covering based on biclustering", *International Journal of Information Technology and Decision Making* 13, 1029-1049, 2014.
- 8. P. Mitropoulos, I. Mitropoulos and I.Giannikos, "Combining DEA with location analysis for the effective consolidation of services in the health sector", *Computers and Operations Research*, 40:9, 2241-2250, 2013.
- 9. G. Alexandris and I. Giannikos, "A New Model for Maximal Coverage Exploiting GIS Capabilities", *European Journal of Operational Research* 202/2, 328-338, 2010.
- 10. I. Giannikos, "A fuzzy goal programming model for demand covering", *TOP-Journal of the Spanish OR Society*, 18:1, 185-202, 2010.
- 11. N. Mastroyannis, B. Boutsinas and I. Giannikos, "A method for improving the accuracy of data mining classification algorithms", *Computers and Operations Research* 36/10, 2829-2839, 2009.
- 12. N. Mastroyannis, B. Boutsinas, I. Giannikos and G. Antzoulatos, "A new classification methodology based on ELECTRE I method and Data Mining classification techniques", *Journal of the Operational Research Society* 60, 1085-1095, 2009.
- 13. P. Mitropoulos, E. Adamides, I. Giannikos and I. Mitropoulos "Developing an Integrated Solid Waste Management System using Exact and Heuristic Approaches: an Application in Western Greece", *International Transactions in Operational Research* 16/3, 275-409, 2009.
- 14. P. Polychroniou and I.Giannikos, "A fuzzy multicriteria decision making methodology for personnel selection in a Greek private bank", *Career Development International* 14/4, 372-387, 2009.

- 15. I. Giannikos and P. Polychroniou "A Fuzzy Goal Programming Model for Task Allocation in Teamwork", *International Journal of Human Resources Development and Management* 9/1, 97-115, 2009.
- G. Alexandris, M. Dimopoulou and I. Giannikos "A Three Phase Methodology for Developing or Evaluating Bank Networks", *International Transactions in Operational Research* 15/2, 215-237, 2008.
- 17. P. Mitropoulos, E. Adamides, I. Giannikos and I. Mitropoulos "Exact and Heuristic Approaches for the Locational Planning of an Integrated Solid Waste Management System", *Operational Research: an International Journal* 9/3, 329-347, 2009.
- 18. E. Adamides, I. Giannikos, P. Mitropoulos and I. Mitropoulos "A Multi-methodological Approach to the Development of a Regional Waste Management System", *Journal of the Operational Research Society*, 60, 758-770, 2008.
- 19. M. Dimopoulou and I. Giannikos, "The Effects of Variations of the Demand Space Definition on the Demand Covering Models" *Studies in Location Analysis*, 16, 33-64, 2007.
- 20. Sissouras, P. Mitropoulos, I. Mitropoulos and I. Giannikos, "A biobjective model for the locational planning of hospitals and health centers", *Health Care and Management Science* 9, 171-179, 2006.
- 21. M. Dimopoulou and I. Giannikos, "Towards an integrated framework for forest fire control", *European Journal of Operational Research* 152, 476-486, 2004.
- 22. P.Miliotis, M. Dimopoulou and I. Giannikos, "A hierarchical location model for locating bank branches in a competitive environment", *International Transactions in Operational Research* 9, 549-566, 2002.
- 23. M. Dimopoulou and I. Giannikos, "Spatial Optimization of Resources Deployment for Forest Fire Management", *International Transactions in Operational Research* 8, 523-534, 2001.
- 24. Giannikos, "A Multi-objective Programming Model for Locating Undesirable Facilities and Routing Hazardous Wastes", *European Journal of Operational Research* 104/2, 333-342, 1998.
- 25. S. Nickel, I. Giannikos et al, "Some Personal Views on the Current State and the Future of Locational Analysis" (with S. Nickel et al), *European Journal of Operational Research* 104/2, 269-287, 1998.
- 26. I. Giannikos and E. Rizakou, "The Use of a Flexible Planning Methodology in Making Locational Decisions under Uncertainty", *Middle East FORUM* 1, 103-115, 1996.
- 27. I. Giannikos, E. El-Darzi and P. Lees, "An Integer Goal Programming Model to Allocate Offices to Staff in an Academic Institution", *Journal of the Operational Research Society* 46, 713-720, 1995.
- 28. I. Giannikos, "A Pre-emptive Goal Programming Model for Locating Undesirable Facilities", *Studies in Regional and Urban Planning* 3, 141-152, 1994.
- 29. G. Appa and I. Giannikos, "Is Linear Programming Necessary for Single Facility Location with Maximin of Rectilinear Distance?", *Journal of the Operational Research Society* 45/1, 97-107, 1994.
- 30. G. Appa and I. Giannikos, "A Good Enhancement with Logical Weaknesses", *Journal of the Operational Research Society*, 44/1, 103-106, 1993.

#### 7.5 GUEST EDITING

• Guest editor (with M. Dimopoulou) of the Special Issue of the European Journal Of Operational Research on "Recent Advances in Location Analysis", EJOR 179/3, 2007. This special issue includes 22 papers of top researchers in Location Analysis.

#### 7.6 PAPERS IN CONFERENCE PROCEEDINGS

1. I. Giannikos and A. Nearchou, "The Multi Shift Coverage Facility Location Problem", Proceedings of the 22nd Meeting of EURO Working Group in Location Analysis, Budapest, Hungary, 2015

- I. Giannikos, P. Mitropoulos and I. Mitropoulos, "Stochastic location allocation modeling for primary health care facility network design", Proceedings of the XIII ISOLDE Symposium – Naples/Capri (Italy), 2014
- 3. M. Skaperda, I. Giannikos and K. Siriopoulos, "Comparative Analysis of Efficiency in the Banking Sector", Proceedings of the 3d Conference on Applied Economics, Volos, Greece, 2013
- I. Giannikos, P. Mitropoulos and I. Mitropoulos, "Consolidation of Services in the Health Sector using DEA and Location-Allocation Modeling", Proceedings of the 20<sup>th</sup> Meeting of EURO Working Group in Location Analysis, Ankara, Turkey, 2013
- 5. I. Giannikos, P. Mitropoulos, E. Adamides and I. Mitropoulos, "Locational Planning for an Integrated Solid Waste Management System", Proceedings of the Euro Winter Institute on Location and Logistics, 6-17, 2007.
- 6. A.Sissouras, P.Mitropoulos, I.Mitropoulos and I. Giannikos, "A Multiobjective Model for the Location of Health Centers in Greece", Proceedings of the 8th International Conference on System Science in Health Care ICSSHC, Geneva, 534-539, September 2004.
- P.Miliotis, M. Dimopoulou and I. Giannikos, "The Demand Covering Problem under Conditions of Weighted Demand Sub-regions", Integrating Technology and Human Decisions: Global Bridges into the 21st century, Volume II (Proceedings of the 5th International Conference of the Decision Sciences Institute), 1999.
- 8. Μ. Δημοπούλου, Γ. Καρκαζής και Ι. Γιαννίκος, "Οι Δασικές Πυρκαγιές στην Ελλάδα: Μία Πρόταση για την Κατανομή των Διαθέσιμων Δυνάμεων με Στόχο την Έγκαιρη Αντιμετώπισή τους", Πρακτικά του 11ου Συνεδρίου της Ελληνικής Εταιρίας Επιχειρησιακών Ερευνών, 23-29, 1999.
- 9. I. Giannikos, "Locating Multiple Obnoxious Facilities in the Plane under the Rectilinear Metric", Studies in Locational Analysis 4 (Proceedings of ISOLDE VI), 139-142, 1993.

#### 7.7 OTHER PAPERS

1. "Advances in Location Analysis" (Editorial) *European Journal of Operational Research* 179, p.p. 923–926, 2007.

#### 7.8. CONFERENCE PAPERS (SELECTION)

- 1. "Multi Period Demand Covering Problems", παρουσιασμένη στο 23ο Meeting of the EURO Working Group on Locational Analysis, Malaga, Σεπτέμβριος, 2016
- 2. "Planning health services in primary care: A stochastic location allocation model", παρουσιασμένη στο 220 Meeting of the EURO Working Group on Locational Analysis, Budapest, Μάιος, 2015
- 3. "The Multi Shift Coverage Facility Location Problem", παρουσιασμένη στο 220 Meeting of the EURO Working Group on Locational Analysis, Budapest, Μάιος, 2015
- "Stochastic location allocation modeling for primary health care facility network design", παρουσιασμένη στο 13ο International Symposium on Locational Decisions (ISOLDE), Napoli-Capri, Ιούνιος 2014
- 5. "Consolidation of Services in the Health Sector using DEA and Location-Allocation Modelling", παρουσιασμένη στο 20ο Meeting of the EURO Working Group on Locational Analysis, Ankara, Απρίλιος, 2013
- 6. "Using Clustering Heuristics to Solve a Family of Demand Covering Models", presented at EURO XXVI (26th European Conference on Operational Research), Vilnius, July 2012.
- "Using Clustering Heuristics to Solve Demand Covering Models", presented at the 19<sup>th</sup> Meeting of the EURO Working Group on Locational Analysis, Nantes, November, 2011

- 8. "Measuring the Administrative Efficiency of EU Leader Development Programs with DEA: an Application in the Local Implementation of Greek Leader +, presented at the 9<sup>th</sup> International Conference on DEA, Thessaloniki, August 2011
- "Enhancing Demand Covering Models by Exploiting Data Envelopment Analysis (DEA) Efficiency Scores", presented at the 18<sup>th</sup> Meeting of the EURO Working Group on Locational Analysis, Naples, April, 2010
- 10. "Multiobjective Demand Coverage Models based on GIS", presented at EURO XXIV (24th European Conference on Operational Research), Lisbon, July 2010.
- 11. "Partial Coverage-based Maximal Demand Coverage Models" presented at EURO XXIII (22nd European Conference on Operational Research), Bonn, July 2009.
- 12. "A New Clustering Heuristic for the Set Covering Problem", παρουσιασμένη στο 16<sup>th</sup> Meeting of the EURO Working Group on Locational Analysis, Estroril, Portugal, February, 2007.
- 13. "Solving Data Mining Problems using Principles of the ELECTRE I Method", presented at the 20th Conference of the Hellenic O.R. Society (HELORS), Spetses, June 2008.
- 14. "Improved Formulations and Heuristics for the Location of Transfer Stations and Waste Disposal Sites", presented at EURO XXII (22nd European Conference on Operational Research), Prague, July 2007.
- 15. "A New Clustering Heuristic for solving the Set Covering Problem", presented at EURO XXII (22nd European Conference on Operational Research), Prague, July 2007.
- 16. "A New Clustering Heuristic for the Set Covering Problem", presented at the 16<sup>th</sup> Meeting of the EURO Working Group on Locational Analysis, Estroril, Portugal, February, 2007.
- 17. "A methodology for approximating the demand space in continuous demand covering models" presented at 10thInternational Symposium on Locational Decisions, Sevilla-Islatilla, Spain, June 2005.
- 18. "Location Analysis in a Regional Solid Waste Management System", presented at 10th International Symposium on Locational Decisions, Sevilla-Islatilla, Spain, June 2005.
- 19. "Locating Transfer Stations and Waste Treatment Facilities: Models and Algorithms", presented at 15th Meeting of the EURO Working Group on Locational Analysis, Saarbrücken, Germany, September 2004.
- 20. "Extending outranking relations using data mining classification techniques" presented at EURO XX (20th European Conference on Operational Research), Rhodes, July 2004.
- 21. "A Methodology for Locating Transfer Stations and Waste Treatment Facilities" presented at EURO XX (20th European Conference on Operational Research), Rhodes, July 2004.
- 22. "A Methodology for Approximating the Demand Space in Continuous Demand Covering Models" presented at EURO XX (20th European Conference on Operational Research), Rhodes, July 2004.
- 23. "A Methodology for Evaluating Alternative Approximations of the Demand Space in Demand Covering Models", presented at 14th Meeting of the EURO Working Group on Locational Analysis, Corfu, September 2003.
- 24. "Developing an Integrated Decision Support System for Locating Transfer Stations and Waste Treatment Facilities", presented at 14th Meeting of the EURO Working Group on Locational Analysis, Corfu, September 2003.
- 25. "Developing Service Networks: A Hierarchical Approach in the Case of Commercial Banks", presented at 13th Meeting of the EURO Working Group on Locational Analysis, Volos, Greece, November 2001.
- 26. "The Effects of Variations of the Demand Space Definition on Demand Covering Models", presented at 13th Meeting of the EURO Working Group on Locational Analysis, Volos, Greece, November 2001.

- 27. "A Hierarchical Location Model for Locating Bank Branches in a Competitive Environment", presented at 10th IFORS Special Conference *New Trends in Banking Management*, Athens, April 2001.
- 28. "Interpreting variations of the demand space on demand covering models", presented at EURO XVII Conference, Budapest, Hungary, July 2000.
- 29. "Mathematical Programming Approaches to the Deployment of Resources for Forest Fire Detection and Suppression", presented at 8th International Symposium on Locational Decisions, Coimbra-Estoril, Portugal, June 1999.
- 30. "An Integrated Methodology for Forest Fire Management and Control" presented at 10th Meeting of the EURO Working Group on Locational Analysis, Murcia, Spain, February 1998.
- 31. "A Heuristic Method for Collecting Solid Waste and Locating Treatment Stations" presented at 3<sup>rd</sup> International Symposium on Quantitative Methods, Athens, August 1997.
- 32. "An Approach to the Problem of Collecting Waste and Transporting it for Treatment or Disposal" presented at the Symposium on Combinatorial Optimization (CO'96), Imperial College, UK, March 1996.
- 33. "The Use of a Flexible Planning Methodology in Making Locational Decisions under Uncertainty" presented at European Working Group in Locational Analysis, Lambrecht, Germany, September 1995.
- 34. "A Multi-objective Programming Model for Locating Undesirable Facilities and Routing Hazardous Wastes", presented at 12th European Summer Institute on Locational Analysis, Tenerife, Spain, june 1995.
- 35. "A Multiple Objective Programming Model for Locating Undesirable Facilities and Routing Hazardous Wastes" presented at Advanced Mathematical Programming Conference, Brunel University, UK, April 1995.
- 36. "Using Integer Programming to Develop a Planning Tool for Course Timetabling" presented at Advanced Mathematical Programming Conference, Brunel University, UK, April 1995.
- 37. "A Goal Programming Model for Locating Undesirable Facilities" presented at European Working Group in Locational Analysis, Chios, Greece, August 1994.
- 38. "An Integrated Timetabling and Space Allocation System", presented at EURO XIII/ OR 36 Conference University of Strathclyde, UK, July 1994.
- 39. "Space Management in a Large Academic Institution", presented at TIMS/ORSA Conference, Boston, USA, April 1994.
- 40. "Locating Multiple Obnoxious Facilities in the Plane", presented at 6th International Symposium on Locational Decisions, Chios, Greece, June 1993.

#### 8. CITATIONS

To the best of my knowledge more than 600 citations of my research work have appeared in the literature. Some of these citations are listed below:

#### <u>PhD Thesis</u>

- "Models and Methods for Location and Routing Decisions Relating to Hazardous Materials" Boffey T. B. and Karkazis J., *Studies in Locational Analysis* 5 (ISOLDE VI Survey Papers), p.p. 148-166, 1993.
- "Facility Location: A Suvey of Applications and Methods", Drezner Z. (Ed), Springer-Verlag, 1995.
- "Facility Location: Applications and Theory", Drezner Z. and H. Hamacher (Eds), Springer, 2004.

### "Locating Multiple Obnoxious Facilities in the Plane under the Rectilinear Metric", Studies in Locational Analysis 4 (Proceedings of ISOLDE VI), (1993), 139-142

• "The Rectilinear Distance Minisum Problem with Minisum Distance Constraints", Brimberg J. and Wesolowsky G., *Location Science* 3/3, p.p. 203-215, 1995.

#### "<u>A Pre-emptive Goal Programming Model for Locating Undesirable Facilities", Studies in</u> <u>Regional and Urban Planning 3 (1994), 141-152</u>

• "Operations Research and Environmental Planning", Daniel S., Diakoulaki D. and Pappis C., *European Journal of Operational Research* 102/2, p.p. 248-263, 1998.

#### "<u>Is Linear Programming Necessary for Single Facility Location with Maximin of Rectilinear</u> <u>Distance?</u>" (with G. Appa), *Journal of the Operational Research Society* 45/1 (1994), 97-107

- "Models and Methods for Location and Routing Decisions Relating to Hazardous Materials" Boffey T. B. and Karkazis J., *Studies in Locational Analysis* 5 (ISOLDE VI Survey Papers), p.p. 148-166, 1993.
- "Multi-facility Location using a Maximin Criterion and Rectangular Distances", Brimberg J. and Mehrez A., *Location Science* 2/1, p.p. 11-19, 1994.
- "The Rectilinear Distance Minisum Problem with Minisum Distance Constraints", Brimberg J. and Wesolowsky G., *Location Science* 3/3, p.p. 203-215, 1995.
- Facility Location: A Suvey of Applications and Methods", Drezner Z. (Ed), Springer-Verlag, 1995.
- "The Location of Ambivalent Facilities-Use of a Quadratic Zero-One Programming Algorithm" Comley W.J., *Applied Mathematical Modeling* 19/1, p.p. 26-29, 1995.
- "Rectilinear location revisited", White D.J., *Journal of the Operational Research Society* 47/1, p.p. 181-187, 1996.
- "Location and layout planning A survey" Domschke W, Krispin G, OR SPEKTRUM 19/3, p.p. 181-194, 1997.
- "Bicriteria location of a semi-obnoxious facility" E. Melachrinoudis, *Computers in Industrial Engineering* 37/3, p.p. 581-593, 1999.
- "A Mixed Integer Programming Formulation for the L-Maximin Problem", Sayin S, *Journal of the Operational Research Society* 51/3, p.p. 371-375, 2000.
- "Facility Location: Applications and Theory", Drezner Z. and Hamacher H. (Eds), Springer, 2004.
- "Vibrational genetic algorithm (Vga) for solving continuous covering location problems", Ermis M, Ulengin F, Hacioglu A, *Lecture Notes in Computer Science* 2457, p.p. 293-302, 2002.
- *"Undesirable and semi-desirable facility location problems*", D. Nardğler, MSc Thesis, Graduate School of Natural and Applied Sciences, Middle East Technical University, Turkey, 2004.
- "Managing Product Returns for Reverse Logistics", Srivastava S. and Srivastava R., *International Journal of Physical Distribution and Logistics* 36/7, p.p. 524-546, 2006.
- "Mixed integer programming-based solution procedure for single-facility location with maximin of rectilinear distance", D Nadirler and E Karasakal, *Journal of the Operational Research Society* 59, p.p. 563 – 570, Apr 2008.

#### "<u>An Integer Goal Programming Model to Allocate Offices to Staff in an Academic Institution</u>" (with E. El-Darzi and P. Lees), *Journal of the Operational Research Society* 46 (1995), 713-720

- "Space allocation: An analysis of higher education requirements", Burke EK, Varley DB, *Lecture Notes in Computer Science* 1408, p.p. 20-33, 1998.
- "Nonlinear multi-objective optimization", K. Miettinen, Springer, 1998
- "A computer based system for space allocation optimization", E. Burke, P. Cowling, J.D. Silva, B. McCollum and D. Varley, *Proceedings of the ICC&IE*, 2000, p.p. 1-5, 2000.
- "Three methods to automate the space allocation process in UK universities", Burke EK, Cowling P, Silva JDL, et al , *Lecture Notes in Computer Science* 2079, p.p. 254-273, 2001.

- "Automating space allocation in higher education", Burke EK, Varley DB, *Lecture Notes in Computer Science* 2079, p.p. 254-273, 2001.
- "Hybrid population-based metaheuristic approaches for the space allocation problem", EK Burke, P Cowling and JD Landa Silva, *Proceedings of the 2001 Congress on Evolutionary Computation*, 1, p.p. 232-239, 2001.
- "*Multiple criteria optimization: state of the art annotated bibliographic surveys*", M. Ehrgott and X. Gandibleux, Springer, 2002.
- "A two-phase multiple objective approach to university timetabling utilising optimisation and evolutionary solution methodologies", Mirrazavi SK, Mardle SJ, Tamiz M, *Journal of the Operational Research Society* 54/11, p.p. 1155-1166, 2003.
- "Asynchronous Cooperative Local Search for the Office-Space-Allocation Problem", D Landa-Silva and EK Burke, *INFORMS Journal on Computing*, p.p. 1-26, 2007.

### "Some Personal Views on the Current State and the Future of Locational Analysis" (with S. Nickel et al), European Journal of Operational Research 104/2 (1998), 269-287

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### <u>"Spatial Optimization of Resources Deployment for Forest Fire Management" (with M. Dimopoulou), International Transactions in Operational Research 8, p.p. 523-534, 2001.</u>

- "Scheduling fire fighting tasks using the concept of deteriorating jobs", N. Rachaniotis and C. Pappis, *Canadian Journal of Forest Research*, 36/3, pp. 652–658, 2006.
- "Agent-based modeling and simulation of wildland fire suppression", X Hu and Y Sun, 2007 Winter Simulation Conference, pp. 1275-1283, 2007.

## "A hierarchical location model for locating bank branches in a competitive environment" (with P.Miliotis and M. Dimopoulou), International Transactions in Operational Research 9, p.p. 549-566, 2002.

- "Una aproximação da fronteira eficiente para um problema de localização hierárquico de máxima cobertura", LGA Espejo and RD Galvão, *Pesquisa Operacional*, 24/2, p.p.303-321, 2004.
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- "Managing customer services using GIS in banks: a case in Chinese competitive environment", Y. Fu, Master's Thesis, Department of Computer and Information Science, Linköpinks Universitet, 2007.
- "Derivation and test of spatial rules for the prediction of efficiency of business branches", A. Toomanian, Master's Thesis, International Institute for Geo-Information Science, and Earth Observation, Entschede, The Netherlands, 2007.
- "A Service-Oriented Solution for Retail Store Network Planning", X Bai, W Shang, W Yin and J Dong, *IEEE International Conference on Services Computing (SCC 2007)* p.p. 482-489, 2007.

#### <u>"Towards an integrated framework for forest fire control" (with M. Dimopoulou), European</u> Journal of Operational Research 152, p.p. 476-486, 2004.

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- "Design and Development of Forest Fire Detection GIS", Z. Sha and Y. Tian, *Geospatial Information* 5/4,pp.8-10, 2007.

#### 9. STUDIES

- 1. Transport study for the islands of Ikaria and Fournoi (in collaboration with Th. Mavrogeorgis), carried out within the TERRA-LORE European project, 2000.
- 2. Feasibility study for the highway linking the Aktio-Preveza bridge with the Western Greece Highway (in collaboration with A. Maggioros, Th. Mavrogeorgis and E. Rizakou), funded by the Greek Ministry for Public Works, 2003.
- 3. Feasibility study for Public Works in the Athens Olympic Stadium area (in collaboration with A. Maggioros, Th. Mavrogeorgis and E. Rizakou), funded by the Greek Ministry for Public Works, 2001.
- 4. Feasibility study for Public Works in the Neo Faliro area (in collaboration with A. Maggioros, Th. Mavrogeorgis and E. Rizakou), funded by the Greek Ministry for Public Works, 2001.
- 5. Feasibility study for the highway linking the Aktio-Preveza bridge with the Western Greece Highway (in collaboration with A. Maggioros, Th. Mavrogeorgis and E. Rizakou), funded by the Greek Ministry for Public Works, 2001.

#### **10.** OTHER SCIENTIFIC ACTIVITIES

### 2013-2016 Project PAYEYS "Support System for People with Autism based on an Intelligent Information System"

• Member of the research team

#### 2012-2015 Project "Archimedes III"

• Participation in the research group of the project "Planning of primary health care services in semiurban and rural areas". The project is funded by the European Union and is carried out by the Department of Business Planning and Information Systems of the Higher Technological Institute of Patras.

#### 2012-2015 Project for the Support of Post-doctoral research

• Participation in the research team of the project entitled "A Multi-Methodology for the Effective Planning of Hospitals Services". The project is carried out by the Department of Business Planning and Information Systems of the Higher Technological Institute of Patras.

#### 2007-2010 Project "Koinonia tis Pliroforias (KtP)"

• Member of the workgroup for activity Y8 "Administrative Tasks" of Activity "E-UNIVERSITY" of KtP.

#### 2005-2006 Project "URBE-VIVA" (INTERREG IIIC)

• Development of methodologies for the determination of best practices for the renovation of urban areas. The methodologies were applied by all partners in the project (Municipality of Patras and 5 other European municipalities) and received favourable comments by the European Union evaluators.

#### 2003- 2006 Project "Archimedes"

• Participation in the research group of the project "Development of an Integrated Decision Support System for the Efficient Location and Operation of Transfer Stations and Waste Disposal Sites". The project was funded by the European Union and was carried out by the Department of Business Planning and Information Systems of the Higher Technological Institute of Patras.

#### Sept. 2003 Organization of EWGLA XIV conference

Organization (in collaboration with Maria Dimopoulou, Assistant Professor of the Athens University
of Economics and Business), of the 14th Conference of the European Working Group in Locational
Analysis (EWGLA) in September 2003 in Corfu. EWGLA is a group of European researchers active
in the field of Location Analysis, with more than 200 members under the auspices of the European
Association of Operational Research Societies (EURO).

#### 1998-2002 Hellenic Open University

AUTHOR AND REVIEWER

- Author of the book "Mathematical Programming" of the undergraduate programme in Computer Science.
- Reviewer of the books "Statistical and Econometrical Methods", "Operational Research I" and "Operational Research II" of the same programme.

#### Participation in Scientific Committees

- EWGLA XXIII Conference, Malaga, Spain, 2016
- EWGLA XXII Conference, Budapest, Hungary, 2015
- ISOLDE XIII International Symposium, Naples/Capri, Italy 2014
- EWGLA XX Conference, Ankara, Turkey, 2013
- EWGLA XIX Conference, Nantes, France, 2011
- EWGLA XVIII Conference, Naples, Italy, 2010
- EWGLA XVII Conference, Elche, Spain, 2008
- EURO Winter Institute on Location and Logistics, Estoril, Portugal, 2007
- EWGLA XVI Conference, Estoril, Portugal, 2007.
- EWGLA XV Conference, Saarbrücken, Germany, 2005.
- 17th Conference of the Hellenic OR Society, Patras, 2005
- EWGLA XIV Conference, Corfu, Greece, 2003.

#### 1994-(2010) Reviewer in Academic Journals

- Journal of Environmental Management
- European Journal of Operational Research

- Journal of the Operational Research Society
- Location Science
- Studies in Regional and Urban Planning
- Studies in Location Analysis
- TOP (Official Journal of the Spanish Society of Statistics and Operations Research)
- Naval Research Logistics
- International Transactions in OR
- Annals of OR
- Computers and OR
- ORIJ (OR an International Journal)

#### **11.** Administrative Duties

- Head of Department, Department of Business Administration, University of Patras, September 2014-September 2016.
- Coordinator of the Internal Evaluation Committee (OMEA) of the Department of Business Administration of the University of Patras, 2011-2014.
- Member of the Internal Evaluation Committee (OMEA) of the Department of Business Administration since 2014.
- Director of the Laboratory of Research for Tourism and Satellite Accounts (LA.RE.T.SA) of the Department of Business Administration of the University of Patras since 2011
- Member of the Erasmus Committee of the University of Patras, 2009-2014
- Departmental coordinator for the LLP Erasmus program in the Department of Business Administration, 2008-2014
- Member of the Committee for Budget Allocation of the University of Patras, 2013
- Member of the Committee of the MBA programme of the Department of Business Administration of the University of Patras from 2004 until 2006 and from 2018 until 2020.

#### **12. OTHER PROFESSIONAL EXPERIENCE**

#### 1996-2001 Consulting Experience

- (1998-2000) Project manager for project LORE of programme TERRA. This project was co-funded by the European Community and concerned the establishment of a network of regional observatories in five remote areas of Southern Europe.
- (1997) Conducted a feasibility study for the Careers Office of the Athens University of Economics and Business. The study included an assessment of the current situation and suggestions for the extension of the services offered by the Office and its co-operation with similar Offices of other academic institutions in the country.
- (1996-1997) Designed a performance assessment model for a cosmetics manufacturer in Greece.

#### 1995-1997 Hellenic Army

#### **RESEARCH ASSISTANT**

- (1/96-7/96) Worked as system administrator in a local computer network and using spreadsheet modelling to address various logistics issues in an Army warehouse complex.
- (8/96-5/97) Developed a data base application for the Funds Allocation Department of the Hellenic Army

#### 1993-1995 University of Westminster, London

#### POST-DOCTORAL RESEARCH FELLOW

- Worked as part of a research group for the development of a computerised timetabling and room allocation system for the University of Westminster. The system was used as a decision making aid to help the management of the institution determine its estate strategy for the next ten years.
- (1994) Development of a goal programming model for the National Audit Office of Great Britain to assess proposals of decommissioning Royal Air Force aircraft.

#### 1986-1989 Ergobank, SA, Athens

TRAINEE PROGRAMMER/ANALYST

• Participated in the analysis, design and implementation of a new computer system in a private Greek bank.