Georgios Mamanis – Curriculum Vitae

Assistant Professor of Finance and Financial Technology

Personal Information

- Date of birth: 03-02-1982
- E-mail: gmamanis@ihu.gr; gmamanis@pme.duth.gr
- LinkedIn: (6) Dr. Georgios Mamanis | LinkedIn
- Google Scholar: Georgios Mamanis - Μελετητής Google

Education

2023 – 2026 **MSc in Philosophy and Management (7.98),** Department of Philosophy and Department of Economics, National and Kapodistrian University of Athens, Greece.

2007 - 2012 **Doctor of Philosophy (Ph.D.)**, "Financial Portfolio Optimization using Multiobjective Evolutionary Algorithms", Department of Production & Management Engineering, School of Engineering, Democritus University of Thrace.

2001 - 2006 **Diploma in Production and Management Engineering (7.42)**, Department of Production & Management Engineering, School of Engineering, Democritus University of Thrace.

Working Experience

September 2025 - Today **Assistant Professor,** International Hellenic University, Department of Accounting and Information Systems.

- Finance – Financial Technology (FinTech).

June 2019 – September 2025 **Business Consultant – SQL Developer**, CGSoft (Member of Entersoft)

- Analysis of Business requirements for data warehousing, analytics, business process management.
- Development using Microsoft SQL Server.
- Educating the personnel.

October 2019 – Dec. 2019/ November 2021 – Dec. 2021 **Research associate**, University of Thessaly, AGROTHES. Research subject: Perspective of Agroforestry in Thessaly region: Research on social, environmental and economic aspects to enhance farmer participation.

- Study of the predicted evolution of different land uses in the Area of Mouzaki, Karditsa, Greece.
- Study of CLUE-S (Conversion of Land Use and its Effects at Small regional extent).
- Using operations research's optimization models for calculating the demands required by CLUE-S.
- Economic analysis for calculating the parameters of the optimization models for different land uses.

July - August 2004 **Practical training**, Aluminium of Greece

Teaching Experience

October 2018 – June 2019 **Academic Scholar**, University of Thessaly, Department of Accounting and Finance. Teaching the courses: Quantitative Issues in Finance, Investment Analysis and Portfolio Management.

October 2016 - June 2018 **Academic Scholar**, University of Applied Sciences (T.E.I.) of Thessaly, Department of Accounting and Finance. Teaching the courses: Quantitative Issues in Finance, Investment Analysis and Portfolio Management, Stock Exchange Investments, Investment Strategies, Risk Management and Financial Markets.

October 2012 - February 2013	**Adjunct Lecturer**, University of the Aegean, Department of Financial and Management Engineering, Postgraduate program in Economics and Management for Engineers, Teaching the course Financial Mathematics. Total 21 teaching hours**.**
October 2009 - February 2010	**Timeworker educator**, Vocational Training SA, O.A.E.D, I.E.K of Serres, Instructing of course Mechanics – Materials Strength. Specialty Gas Fuels Technician. Total 45 teaching hours.
October 2008 - January 2009	**Teaching assistant (As Ph.D. candidate)**, Department of Production & Management Engineering, School of Engineering, Democritus University of Thrace, Conduct of exercises of the course Engineering Economics.
October 2007 - February 2008	**Timeworker educator**, Vocational Training SA, O.A.E.D, I.E.K of Serres, Instructing of course "Materials Technology". Specialty Gas Fuels Technician. Total 30 teaching hours.
October 2007 - January 2008	**Teaching assistant (As Ph.D. candidate)**, Department of Production & Management Engineering, School of Engineering, Democritus University of Thrace, Conduct of exercises of the course Engineering Economics.

Other Skills

Computer skills: C, C++, Java, SQL, MS Office, VBA, CPLEX, MATLAB

Language skills: English (good knowledge, ECCE), Greek (Native).

Citations in the Published Work

Total Citations in Scopus: 524

Total Citations in Google Scholar: 890

h index: 7

Publications in Refereed Scientific Journals

1. Violos J., Mamanis G., Kompatsiaris I., Papadopoulos S. (2025). Cognition and context-aware decision-making systems for a sustainable planet: a survey on recent advancements, applications and open challenges. Discover Sustainability, 6(235).
2. Nasiakou S., Vrahnakis M., Chouvardas D., Mamanis G., Kleftoyanni V. (2022). Land Use Changes for Investments in Silvoarable Agriculture Projected by the CLUE-S Spatio-Temporal Model. Land, 11(5):598.
3. Mamanis G., Vrahnakis M., Chouvardas D., Nasiakou S., Kleftoyanni V. (2021). Land Use Demands for the CLUE-S Spatiotemporal Model in an Agroforestry Perspective. Land, 10(10):1097.
4. Mamanis G. (2021). Analyzing the performance of a two-tail-measures-utility multi-objective portfolio optimization model. Operations Research Forum, 2(58): doi: https://doi.org/10.1007/s43069-021-00106-8.
5. Mamanis G. (2017). Portfolio Optimization with Metaheuristics. Finance and Market, 2(2): doi: 10.18686/fm.v2i2.1048.
6. Mamanis G., Anagnostopoulos K. P. (2011). Multiobjective optimization of a discrete mean-variance-skewness portfolio selection model using SPEA2. Journal of Financial Decision Making, 7(2):75-88.
7. Anagnostopoulos K. P., Mamanis G. (2011). Multiobjective evolutionary algorithms for complex portfolio optimization problems. Computational Management Science, 8(3):259-279.
8. Anagnostopoulos K.P., Mamanis, G. (2011). The mean-variance cardinality constrained portfolio optimization problem: An experimental evaluation of five multiobjective evolutionary algorithms. Expert Systems with Applications, 38(11):14208-14217.
9. Mamanis G., Anagnostopoulos K. P. (2011). Constrained mean-risk portfolio optimization: An application of multiobjective simulated annealing. International Journal

of Financial Markets and Derivatives, 2(1):50-67.

10. Anagnostopoulos K. P., Mamanis G. (2010). Using Multiobjective Algorithms to Solve the Discrete Mean-Variance Portfolio Selection. International Journal of Economics and Finance, 2(3):152-162.
11. Anagnostopoulos K. P., Mamanis G. (2010). A portfolio optimization model with three objectives and discrete variables. Computers & Operations Research, 37(7):1285-1297.
12. Anagnostopoulos K. P., Mamanis G. (2009). Finding the Efficient Frontier for a Mixed Integer Portfolio Choice Problem Using a Multiobjective Algorithm. iBusiness, 1:99-105.

Publications in Edited Volumes

1. Mamanis G., Kostarelou E. (2024). Multiobjective Optimization of Mean–Variance-Downside-Risk Portfolio Selection Models. *Maglaras L.A., Das S., Tripathy, N., Patnaik, S. (eds.), Machine Learning Approaches in Financial Analytics. Intelligent Systems Reference Library, vol 254. Springer,* pp. 251-275.
2. Mamanis G. (2021). A Comparative Study on Multi-objective Evolutionary Algorithms for Tri-objective Mean-Risk-Cardinality Portfolio Optimization Problems. *S. Patnaik et al. (eds.), Computational Management, Modeling and Optimization in Science and Technologies 18, Springer Nature Switzerland AG 2021*, pp. 277-303.
3. Mamanis G. Anagnostopoulos K. P. (2013). Mean-Variance Portfolio Optimization with Cardinality and Class Constraints using Multiobjective Evolutionary Algorithms. *N. S. Thomaidis, G. H. Dash (eds), Recent advances in computational finance, Nova Science Publishers, NY,* pp. 117-147.

Publications in Conference Proceedings

1. Anagnostopoulos K. P., Mamanis G., A Tri-Objective Portfolio Selection with Class Constraints*. Proceedings of the 14th International Conference on Computing in Economics and Finance*, University of Sorbonne, Paris, France, 26-28 June 2008.
2. Anagnostopoulos K. P., Mamanis G., Comparing the Quality of Sets of Solutions for Multiobjective Optimization Problems: A Survey of Methods. *Proceedings of the 2nd International Conference on Experiments/Process/System Modeling/Simulation & Optimization*. Athens, Greece, 4-7 July 2007 (CD).
3. Mamanis G., Portfolio Optimization: Modelling and Solution Methods. Proceeding of 4th Student Conference On Management Science and Technology. Athens University of Economics and Business (AUEB), Athens, 27th of May (CD).

Presentations in International Conferences

1. Anagnostopoulos K. P., Mamanis G., Solving a discrete mean-variance-skewness portfolio selection model using multiobjective evolutionary algorithm. *2nd Workshop of the ERCIM Working Group on Computing & Statistics*, Limassol, Cyprus, 29-31 October 2009.
2. Anagnostopoulos K. P., Mamanis G., Multiobjective Evolutionary Algorithms for Portfolio Optimization with Complex Constraints. *5th International Conference on Computational Management Science*, London, U.K., 26-28 March 2008.

Presentations in National Conferences

1. Mamanis G., Analyzing the performance of a cardinality-constrained mean-variance-kurtosis multi-objective portfolio optimization model by means of SPEA2. *15th National Conference of the Financial Engineering and Banking Society,* National and Kapodistrian University of Athens, Greece, December 18-19, 2025.
2. Mamanis G., Anagnostopoulos K. P., Multiobjective Metaheuristics for Complex Portfolio Selection Problems. 10ο *Ειδικό Συνέδριο Ελληνικής Εταιρείας Επιχειρησιακών Ερευνών, 7η Συνάντηση Πολυκριτήριας Ανάλυσης Αποφάσεων*, Ορεστιάδα 30 Σεπτεμβρίου-2 Οκτωβρίου 2010.
3. Αναγνωστόπουλος Κ. Π., Κώτσικας, Λ., Μαμάνης, Γ., Ένας Πολυσκοπικός Γενετικός Αλγόριθμος για το Πρόβλημα Βελτιστοποίησης Χαρτοφυλακίου με Ακέραιους

Περιορισμούς. *6ο Ειδικό Συνέδριο Ελληνικής Εταιρείας Επιχειρησιακών Ερευνών, 4η Συνάντηση Πολυκριτήριας Ανάλυσης Αποφάσεων*, Λάρισα 27-28 Σεπτεμβρίου 2006.

Other Academic Activities

Reviewer in the following scientific journals

- Computers & Operations Research
- Applied Soft Computing
- Expert Systems with Applications
- International Journal of Financial Markets and Derivatives
- International Journal on Artificial Intelligence Tools
- International Journal of Operational Research
- International Journal of Computer Mathematics
- Journal of Experimental & Theoretical Artificial Intelligence
- Journal of the Operational Research Society
- Engineering Optimization
- Mathematics
- International Journal of Financial Studies
- Algorithms
- Computers
- Journal of Big Data

Editorships

- Editorial board, Finance and Market

Other

- Mentor at IRNet

Invited Talks

- Portfolio optimization problems. Department of Computer Science & Engineering, Faculty of Engineering and Technology (ITER), Sikhsa 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India, July 2021.

Organized Conferences

- Member of the Committee. *The 4th International Conference on Decision Science & Management*, Changsha, China, 7-9 January 2022.
- Member of the Committee. *International Conference on Computational Finance and Business Analytics (CFBA-2023)*, Bhubaneswar, India, 29-30 April 2023.
- Member of the Committee. *International Conference on Computational Finance and Business Analytics (CFBA-2024)*, Bhubaneswar, India, 05-06 April 2024.
- Member of the Committee. *International Conference on Computational Finance and Business Analytics (CFBA-2025)*, Bhubaneswar, India, 04-05 April 2025.

Certifications

- Microsoft certified Azure Data Engineer Associate

Professional Memberships

- Technical Chamber of Greece