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Google Scholar: <https://scholar.google.com/citations?user=5otYjlAAAAAJ&hl=en>

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STUDIES

2015 – 2018 PhD, Mathematics Department AUTH

<https://www.didaktorika.gr/eadd/handle/10442/42917?locale=en>

Excellence Scholarship from the Research Committee of AUTH

2010 – 2013 MSc, Mathematics Department AUTH

2006 – 2010 BSc, Mathematics Department AUTH

EXPERIENCE – ACADEMIC POSITIONS

2023 – Assistant Professor, Economics Department AUTH

2019 – 2023 Adjunct Professor, Economics Department AUTH

2018 – 2021 Postdoctoral Researcher, Mathematics Department AUTH

RESEARCH INTERESTS

Mathematical Modeling

Heterogeneous Agent-based Models in Networks

Diffusion Processes in Dynamic Networks

Social Network Analysis – SNA

Organizational Network Analysis – ONA

Non-linear Dynamical Systems

Existence and Stability Conditions of Equilibrium

Bounded Rationality

Complexity

Intelligence

Learning

COURSES

Mathematics II — *Economics Department AUTH*

Mathematical Economics — *Economics Department AUTH*

Applied Statistical Research — *Economics Department AUTH*

COURSES (PAST)

Mathematics I — *Economics Department AUTH*

Statistics II — *Economics Department AUTH*

PUBLICATIONS

A. JOURNALS [J]

[J1] **E. Ioannidis**, N. Varsakelis, I. Antoniou (2017)

False Beliefs in Unreliable Knowledge Networks

Physica A: Statistical Mechanics and its Applications, ELSEVIER

<http://dx.doi.org/10.1016/j.physa.2016.11.070>

[J2] **E. Ioannidis**, N. Varsakelis, I. Antoniou (2018)

Communication Policies in Knowledge Networks

Physica A: Statistical Mechanics and its Applications, ELSEVIER

<https://doi.org/10.1016/j.physa.2017.09.078>

[J3] **E. Ioannidis**, N. Varsakelis, I. Antoniou (2018)

Experts in Knowledge Networks: Central Positioning and Intelligent Selections
Physica A: Statistical Mechanics and its Applications, ELSEVIER
<https://doi.org/10.1016/j.physa.2018.06.003>

[J4] **E. Ioannidis**, N. Varsakelis, I. Antoniou (2019)
Change Agents and Internal Communications in Organizational Networks
Physica A: Statistical Mechanics and its Applications, ELSEVIER
<https://doi.org/10.1016/j.physa.2019.121385>

[J5] **E. Ioannidis**, N. Varsakelis, I. Antoniou (2020)
Promoters versus Adversaries of Change: Agent-Based Modeling of Organizational Conflict in Co-Evolving Networks, *Mathematics*, MDPI, <https://doi.org/10.3390/math8122235>

[J6] **E. Ioannidis**, N. Varsakelis, I. Antoniou (2021)
Intelligent Agents in Co-Evolving Knowledge Networks, **Editor's Choice**
Mathematics, MDPI, <https://doi.org/10.3390/math9010103>

[J7] G. Angelidis, **E. Ioannidis**, G. Makris, I. Antoniou, N. Varsakelis (2020)
Competitive Conditions in Global Value Chain Networks: An Assessment Using Entropy and Network Analysis, *Entropy*, MDPI, <https://doi.org/10.3390/e22101068>

[J8] G. Angelidis, C. Bratsas, G. Makris, **E. Ioannidis**, N. Varsakelis, I. Antoniou (2021)
Global Value Chains of COVID-19 Materials: A Weighted Directed Network Analysis, **Editor's Choice**
Mathematics, MDPI, <https://doi.org/10.3390/math9243202>

[J9] A. Z. Spyropoulos, C. Bratsas, G. Makris, **E. Ioannidis**, V. Tsiantos, I. Antoniou (2021)
Entropy and Network Centralities as Intelligent Tools for the Investigation of Terrorist Organizations
Entropy, MDPI, <https://doi.org/10.3390/e23101334>

[J10] A. Z. Spyropoulos, C. Bratsas, G. Makris, **E. Ioannidis**, V. Tsiantos, I. Antoniou (2022)
Investigation of Terrorist Organizations Using Intelligent Tools: A Dynamic Network Analysis with Weighted Links, *Mathematics*, MDPI, <https://doi.org/10.3390/math10071092>

[J11] **E. Ioannidis**, D. Tsoumaris, D. Ntemkas, I. Sarikeisoglou (2022)
Correlations of ESG Ratings: A Signed Weighted Network Analysis
AppliedMath, MDPI, <https://doi.org/10.3390/appliedmath2040037>

[J12] A. Z. Spyropoulos, **E. Ioannidis**, I. Antoniou (2023)
Interoperability and Targeted Attacks on Terrorist Organizations using Intelligent Tools from Network Science, *Information*, MDPI, <https://doi.org/10.3390/info14100580>

[J13] **E. Ioannidis**, I. Sarikeisoglou, G. Angelidis (2023)
Portfolio Construction: A Network Approach, **Feature Paper**
Mathematics, MDPI, <https://doi.org/10.3390/math11224670>

[J14] D. Tsintsaris, M. Tsompanoglou, **E. Ioannidis** (2024)
Dynamics of Social Influence and Knowledge in Networks: Sociophysics Models and Applications in Social Trading, Behavioral Finance and Business
Mathematics, MDPI, *submitted*

B. BOOK CHAPTERS [BC]

[BC1] I. Antoniou, I. Gialampoukidis, **E. Ioannidis** (2016)
Age and Time Operator of Evolutionary Processes, *Lecture Notes in Computer Science*, SPRINGER
https://doi.org/10.1007/978-3-319-28675-4_5

[BC2] I. Antoniou, **E. Ioannidis**, N. Varsakelis (2022)
Co-Evolutionary Complex Networks, *Fundamental Theories of Physics*, SPRINGER
https://doi.org/10.1007/978-3-031-04458-8_14