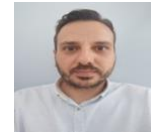


GEORGIOS TSAPLES

gtsaples@ihu.gr



POSITION

Assistant professor

04/05/2026-

Department of Environmental Engineering and Management, International Hellenic University

EDUCATION

PHD

01/09/2016–30/09/2022

Department of Business Administration of the University of Macedonia, Thessaloniki (Greece)

The objective of the PHD is the development of a new Data Envelopment Analysis method to assess sustainability of countries under different perspectives and different and diverse dimensions

Master of Science (Msc.) in Engineering and Policy Analysis

09/2012–08/2014

Delft University of Technology, Delft (Netherlands)

Specialization: Modeling, Simulation and Gaming

Master Thesis: "In search for Robustness: Combining System Dynamics and Exploratory Multi-Criteria Decision Analysis"

Diploma in Electrical and Computer Engineering

09/2002–09/2010

Aristotle University, Thessaloniki (Greece)

Specialization: Electrical Energy

Thesis: Policies of liberalization of the energy sector in the European Union

PROFESSIONAL EXPERIENCE

Freelance Electrical Engineer

01/03/2011–Ongoing

- Electrical Engineer
- Technical Consulting
- Engineering Consulting

Technical Consultant

19/07/2017-30/10/2017

University of Macedonia (GR)

- **MOTIVATE – Promoting citizens’ active involvement in the development of Sustainable Travel Plans in MED cities with Seasonal Demand, MED (2014-2020)**

RESEARCH EXPERIENCE

Researcher

14/02/2025 - 31/12/2026

University of Macedonia

- Technologies for Manufacturing as a Service Ecosystems, 101138517 — Tec4MaaSEs — HORIZON-CL4-2023-TWIN-TRANSITION-01

Researcher

01/01/2025 - 31/12/2025

University of Macedonia

- vvv

Researcher

18/01/2025 - 14/10/2025

Universita Telematica Degli Studi

- Supporting Students' Understanding and Prevention Programs for Overall Relief and Thriving” (SUPPORT) - ID Progetto: PROBEN_0000012 - CUP: G53C24000350001

Researcher

30/1/2025 - 30/11/2027

University of Western Macedonia

- Optimizing Water Resources for Sustainable Agriculture (Horizon Europe)

Researcher/Manager

01/01/2024 - ongoing

Intelligent Decision Support Systems (S.M.P.C.)

Erasmus+ Project

- **BRISWA 2.0: The Ball Rolls in the Same Way for All in Higher Education**

Researcher

16/10/2023 – 27/01/2024

08/03/2024 - 27/12/2024

University of Macedonia

Basic Research (Βασική Έρευνα Η' Κύκλος)

- **EU-MMS: Ένα σύστημα παρακολούθησης στην υπηρεσία της μεταναστευτικής πολιτικής της ΕΕ**

Researcher

14/03/2023–30/09/2024

University of Macedonia

ELIDEK

- **Network Data Envelopment Analysis- Multilevel and Markovian Models and Applications – NET M-iDEA-A**

Researcher

17/04/2024–30/06/2024

University of Macedonia

Erasmus+ Project

- **Optimizing Distance Learning Educational Programs – ODLEP (2022-1-EL01-KA220-HED-000089152)**

Researcher

04/02/2023–07/10/2023

University of Turin (IT)

Project:

- **NEXT - GENERATION UPP: New Collaborative Schemes Between Universities and Judicial Offices For Improving the Efficiency and Performance of Justice in Northwest Italy**
 - Modeling and Simulation of Judicial System

Researcher

01/01/2023–31/07/2023

University of Macedonia

Erasmus+ Project

- **Optimizing Distance Learning Educational Programs – ODLEP (2022-1-EL01-KA220-HED-000089152)**

Researcher

01/06/2023–30/09/2023

University of Macedonia

Erasmus+ Project

- **Sust-HEIn: Fostering whole institution approach to sustainability in HE through systems thinkin (ERASMUS-EDU-2022-PI-FORWARD)**

Researcher

01/01/2023–31/07/2023

University of Macedonia

Erasmus+ Project

- **SDG Labs: *Harnessing the potential of the Social Economy towards a green transformation through the establishment of Socially Driven Green Labs within Universities* (Project number: 2021-1-PL01-KA220-HED-000032077)**
 - Developing Lesson Plans and Lectures on System Dynamics and (i) energy (ii) social entrepreneurship (iii) sustainable Food systems (iv) sustainable housing
 - Developing Simulation models based on System Dynamics

Researcher

28/06/2022–31/12/2022

University of Macedonia

Erasmus+ Project

- **ECOPODCASTS: Student podcasts on eco-conscious and sustainable living (2021-1-BG0-KA220-SCH-000027685)**

Researcher

01/01/2022–31/08/2024

Intelligent Decision Support Systems (S.M.P.C.)

Erasmus+ Project

- **OREN - Multi-stakeholder platform for rural entrepreneurs** (Erasmus+ KA2 Adult Education 2021-1-IT02-KA220-ADU-000033510)

Researcher

01/01/2021–31/12/2022

University of Macedonia (Greece)

Erasmus+ Projects

- **SYSTEMA: Systems Thinking as a core competence for Sustainable Development and Digital Transformation** (Erasmus+, AGREEMENT NUMBER 2020-1-IT02-KA204-080082)
 - State of the art on Systems Thinking in Sustainable Development and Digital Transformation
 - Survey and Data Analysis
 - Systems Thinking Course
- **PMBOG: Project Management Board Game** (Erasmus+, AGREEMENT NUMBER 2020-1-IT02-KA204-079724)
 - Theory of Project Management
- **PROSPER: PROMoting Social entrePreneurship in higher Education for a prospeRous society** (Erasmus+)
 - Game-based learning in higher education
- **EDUGATE: EDucational University GATeway to enhance innovative E-learning capabilities resilience and new best practices** (Erasmus+ Project Agreement No.: 2020-1-IT02-KA226-HE-095538)

Researcher

01/12/2019–30/06/2020

Link Campus University, Rome (Italy)

Research Project

Dynamic systems of sustainable transportation/mobility plan

Research Associate

01/2018–11/2019

Hellenic Institute of Transport, Thessaloniki (Greece)

Research Projects

- **i-bikeshare** (<http://ibikeshare.gr/>). Developed re-balancing Algorithms for managing the supply of bicycles to docking stations
- **Galileo4Mobility** (<http://www.galileo4mobility.eu/>) Developed clustering algorithms to manage taxi-sharing in the city of Thessaloniki, Greece (European Global Navigation Satellite Systems Agency- grant agreement No 776381)
- **LOGIMATIC** (<https://logimatic-project.eu/>) Developed algorithms s for routing and assigning containers to Automated Straddle Carriers for ports. Developed simulation models for investigating the long-term effects of using Automated Straddle Carriers in ports

Researcher

02/2017–09/2018

University of Macedonia, Thessaloniki (Greece)

Erasmus+ Projects

- **Ball Rolls in the Same Way for All (Project Acronym: BRISWA) Erasmus+ Programme: Support for Collaborative Partnerships in the Field of Sport, Grant Agreement No: 2016-3060/001-001:**
 - Literature Review on Racism in Sports
 - Questionnaires and Analysis of the Data
 - Administrative support
- **Game-Based Learning on Urban Sustainability Erasmus+ Action KA2 “Strategic Partnerships in Higher Education” Grant Agreement No: 2017-1-EL01-KA203-036303. Operational Research Methods for Management (ebook)**

Research Fellow

01/10/2014–01/09/2016

Department of Computer, Control and Management Engineering In Sapienza University, Rome (Italy)

Research Projects:

- **CRISADMIN (*Critical Infrastructure Simulation of Advanced Models on Interconnected Networks resilience*)-HOME/2011/CIPS/AG/4000002116.** The aim of the project was to study and simulate the interdependencies of Urban Critical Infrastructures (Electricity, Transportation, Telecommunication) and how they are affected by critical events (natural disasters and/or acts of terror)
- **ATTACS (*Assessing the economic impacts of Terrorist Threats or Attacks following the Close down of public transportation Systems*) HOME/2013/CIPS/AG/4000005083.** The aim of the project was to study with simulation techniques, the economic effects on an urban environment, of terrorist events on public transportation systems

Internship

01/12/2013–01/03/2014

The Hague Center for Strategic Studies, Hague (Netherlands)

Internship in the Hague Center for Strategic Studies. During the internship a manual was created for the use of the appropriate mathematical techniques in the creation of indices in social sciences

TEACHING EXPERIENCE

Lecturer

2023-2024

Department of Business Administration

Two lectures on MCDA in the context of the MSc in Human Resources Management

Adjunct Lecturer

07/03/2024-28/06/2024

Department of Environmental Engineering, International Hellenic University

1. Geographic Information Systems
2. Energy Design of Buildings
3. Environmental and Technical Legislation

Adjunct Lecturer

08/10/2024-31/01/2025

Department of Environmental Engineering, International Hellenic University

1. Energy Design of Buildings
2. Environmental and Technical Legislation

1. Geographical Information Systems
2. Environmental Informatics

PUBLICATIONS

Articles in Scientific journals after review

- [J1] Tsaples G., Armenia S. (2016): Studying pension systems and retirement age: A simple System Dynamics model for a complex issue, *International Journal of Applied Systemic Studies* 6(3), p.258-270
- [J2] Armenia S., Tsaples G., Carlini C., Volpetti C., Onori R., Biondi G. (2017), A system dynamics simulation tool for the management of extreme events in urban transportation, *International Journal of Critical Infrastructures*, 13(4), p.329-353
- [J3] Armenia, S., Tsaples, G. (2018): Individual behavior as a defense in the "war on cyber-terror": A System Dynamics approach, *Studies in Conflict and Terrorism* 41(2) p. 1-24
- [J4] Tsaples G., Fancello, G. (2018), An agent-based model to explore urban policies, pedestrian behaviour and walkability, *International Journal of Decision Support Systems* 3(1-2), p.4-18
- [J5] Armenia, S., Carlini, C., Papathanasiou, J., Pompei, A., & Tsaples, G. (2020). A Systemic Perspective on Racism in Football: The Experience of the BRISWA Project. *PuntOorg International Journal*, 4(2), 56-70. <https://doi.org/https://doi.org/10.19245/25.05.pij.4.2.1>
- [J6] Tarnanidis, T., Tsaples, G., Papathanasiou, J., & Armenia, S. (2020). Instigators and Victims of Racism Abuse in Football: Are the Same, Different, or What?. *International Journal of Applied Behavioral Economics (IJABE)*, 9(1), 27-40, DOI: 10.4018/IJABE.2020010103
- [J7] Tsaples, G., Papathanasiou, J., Armenia, S. (2020). Promoting Sustainable Decision Making – Guest Editorial. *Kybernetes* 49(4), 1061-1063
- [J8] Tsaples, G., Papathanasiou, J. (2020). Multi-level DEA for the construction of multi-dimensional indices. *MethodsX*, 7(101169) , <https://doi.org/10.1016/j.mex.2020.101169>
- [J9] Tsaples, G., & Papathanasiou, J. (2021). Data envelopment analysis and the concept of sustainability: A review and analysis of the literature. *Renewable and Sustainable Energy Reviews*, 138, 110664.
- [J10] Papathanasiou, J., Bournaris, T., Tsaples, G., Digkolou, P., & Manos, B. D. (2021). Applications of DSSs in Irrigation and Production Planning in Agriculture. *International Journal of Decision Support System Technology (IJDSSST)*, 13(3), 18-35.
- [J11] Tsaples, G., Grau, J. M. S., Aifadopoulou, G., & Tzenos, P. (2021). Investigating the effects of introducing Automated Straddle Carriers in port operations with a System Dynamics model. *Periodica Polytechnica Transportation Engineering*, 49(4), 407-415.

- [J12] Tsaples, G., & Papathanasiou, J. (2021). Measuring agricultural sustainability of European countries with a focus on transportation. *International Journal of Sustainable Agricultural Management and Informatics*, 7(4), 304-320.
- [J13] Armenia, S., Tsaples, G., Onori, R., Pompei, A., & Magnuszewski, R. (2022). Systems Thinking and Group Concept Mapping for Classification of Marketing Techniques in Mobility Plans. *Sustainability*, 14(24), 16936.
- [J14] Armenia, S., Tsaples, G., & Franco, E. (2022). A Systems Thinking Archetype to Understand, Analyze, and Evaluate the Evolution of International Political Crises. *Systems*, 10(1), 18.
- [J15] Aifadopoulou, G., Tsaples, G., Salanova Grau, J.M., Mallidis, I., Sariannidis, N. (2020). Management of resource allocation on vehicle-sharing schemes: the case of Thessaloniki's bike-sharing system. *Operational Research*, 22 (2), 1001–1016
- [J16] Tarnanidis, T., Tsaples, G., Papathanasiou, J., & Armenia, S. (2022). Can We Fight EU-Racism in Football?: A Cross-Cultural Study. *International Journal of Applied Behavioral Economics (IJABE)*, 11(1), 1-14.
- [J17] Tsaples, G., Papathanasiou, J., & Georgiou, A. C. (2022). An Exploratory DEA and Machine Learning Framework for the Evaluation and Analysis of Sustainability Composite Indicators in the EU. *Mathematics*, 10(13), 2277.
- [J18] Marković, M., Stanković, J. J., Marjanović, I., & Tsaples, G. (2023). A non-compensatory approach to the creation of composite indices of agricultural sustainability of the European Union countries. *International Journal of Sustainable Agricultural Management and Informatics*, 9(1), 1-18.
- [J19] Blouchoutzi, A., Tsaples, G., Manou, D., & Papathanasiou, J. (2023). Investigating Public–Private Cooperation in Migrant Labor Market Integration: A System Dynamics Study to Explore the Challenge for Greece. *Economies*, 11(2), 38.
- [J20] Armenia, S., Barnabe, F., Franco, E., Iandolo, F., Tsaples, G. (2023). Identifying a minimum common structure for policy options and responses to water management issues through System Dynamics and fsQCA. *Technological Forecasting and Social Change*. 194, 122737
- [J21] Marjanović, I., Stanković, J.J., Tsaples, G. (2023). On the determinants of the bank efficiency in the republic of serbia: two-stage DEA approach. *Economic Themes*, 61 (2) 5, 215-233
- [J22] Tsaples, G., Blouchoutzi, A., Stanković, J. J., Marjanović, I., & Marković, M. (2024). Economic-Innovation efficiency in EU countries: A multi-perception DEA approach. *International Journal of Decision Support Systems* 5(1), 52-74
- [J23] Tsaples, G., Papathanasiou, J., & Manou, D. (2024). Synergies and Challenges: Exploring Organizational Perspectives on Digital Transformation and Sustainable Development in the Context of Skills and Education. *Buildings*, 14(2), 395.
- [J24] Blouchoutzi, A., Tsaples, G., Manou, D., & Papathanasiou, J. (2025). Refugees' Settlement in Greece: Employment in Agriculture as a Criterion for an Alternative Dispersal Plan. *Growth and Change*, 56(2), e70030.

[J25] Georgiou, A. C., Tsaples, G., & Thanassoulis, E. (2025). Planning methods using data envelopment analysis and markov systems. *European Journal of Operational Research*. <https://doi.org/10.1016/j.ejor.2025.04.050>.

[J26] Czyżewska, M., Szczygiał, E., Tsaples, G., Manou, D. B., & Papathanasiou, J. (2025). The Future of Sustainable Entrepreneurship: Youth Perspectives in Greece and Poland. *Sustainability*, 17(11), 5226. <https://doi.org/10.3390/su17115226>

[J27] Kaparis, K., Georgiou, A. C., Lounis, S., Tsaples, G., Ioannis, M., Zois, G., ... & Ozcan, M. C. (2025). Designing a manufacturing as a service ecosystem through distributed value networks and structured volume-variety dynamics. *International Journal of Systems Science: Operations & Logistics*, 12(1), 2597349

[J28] Tsaples, G., Manou, D., Aretoulis, G., Aretouli, E., Papathanasiou, J., & Seridou, A. (2026). Optimizing distance learning educational programs research project. Results and lesson learned from the conduction of university courses. *International Journal of Organization Theory & Behavior*, 1-20.

Articles in Conferences after review

[C1] Nassikas M., Tsaples G. (2013): Epidemiology of Cytomegalovirus, In Proceedings of the 31st International System Dynamics Conference (ISDC), Cambridge, Massachusetts, USA

[C2] Tsaples G., Pruyt E., Kovari A., Vassilopoulos C. (2013): A Shock to the System: How can Land Value Taxation change the Face of Cities? , In Proceedings of the 31st International System Dynamics Conference, (ISDC), Cambridge, Massachusetts, USA

[C3] Armenia S., Tsaples G., Carlini C., Armendariz V., Volpetti C., Onori R. (2015): A Systems Thinking approach to the analysis of economic impacts related to transportation shutdowns: the ATTACS project, In Proceedings of the 33rd International System Dynamics Conference (ISDC), 2015, Cambridge, Massachusetts, USA

[C4] Pruyt E., Tsaples G., Armenia S., Onori R., Antinori A. (2015): Fighting Foreign Fighters. But What About Potential and Returning Foreign Fighters?, In Proceedings of the 33rd International System Dynamics Conference (ISDC), Cambridge, Massachusetts, USA

[C5] Armenia S., Tsaples G., Carlini C. (2015): Interactive Learning Environments for Crisis Management through a System Dynamics approach, In Proceedings of the 15th European Academy of Management (EURAM) Conference, Warsaw, Poland, ISBN 978-8386437-60-0

[C6] Armenia S., Tsaples G., Carlini C., Volpetti C., Onori R. (2016): Resilience of transportation networks in the face of randomness: A System Dynamics approach, In Proceedings of the International City Planning and Urban Design Conference (CPUD), Istanbul, Turkey, ISBN: 978-605-9207-21-8

[C7] Armenia S., Carlini C., Onori R., Tsaples G., Volpetti C. (2016): Improving Decision Making in Crisis Management through learning-by-doing: the Case Study of the ATTACS Project, In Proceedings of the 16th European Academy of Management (EURAM) Conference, Paris, France, ISSN 2466-7498

- [C8] Armenia S., Carlini C., Tsaples G., Volpetti C. (2016): A System Dynamics approach to public transportation strikes and travelers' behavior in the city of Rome, in Proceedings of the 34th International System Dynamics Conference (ISDC), Delft, the Netherlands
- [C9] Tarnanidis, T., Tsaples, G., Moschidis, E. (2017): A Multicriteria decision-making model of sustainable entrepreneurship, In the Proceedings of the 9th International Pan-Hellenic Conference on Data Analysis
- [C10] Tarnanidis, T., Papathanasiou, J., Tsaples, G.; Moschidis, E. (2018): Modeling instigators of racism, abuse in football: The case of six EU countries, In Proceedings of the Proceedings of the 4th International Conference on Decision Support System Technology – ICDSST 2018 & PROMETHEE DAYS 2018, ISBN: 978-2-917490-29-7
- [C11] Papathanasiou, J., Armenia, S., Pompei, A., Scolozzi, R., Barnabè, F., Tsaples, G. (2019): SUSTAINABILITY LITERACY THROUGH GAME-BASED LEARNING, In Proceedings of the 12th annual International Conference of Education, Research and Innovation, DOI: 10.21125/iceri.2019.1313
- [C12] Papathanasiou, J., Armenia, S., Barnabè, F., Carlini, C., Ciobanu, N., Digkoglou, P., Jarzabek, L., Kulakowska, M., Lanzuisi, A., Morfoulaki, M., Myrovali, G., Onofrei, C., Pompei, A., Scolozzi, R., Tsaples, G. (2019): Game based learning on urban sustainability: the “SUSTAIN” project”. EDULEARN19, the 11th annual International Conference on Education and New Learning Technologies, Palma de Mallorca, Spain, 1-3, July
- [C13] Armenia, Stefano, Ciobanu, Natalia, Kulakowska, Michalina, Myrovali, Glykeria, Papathanasiou, Jason, Pompei, Alessandro, Tsaples, Georgios and Tsironis, Loukas. "An Innovative Game-Based Approach for Teaching Urban Sustainability" Balkan Region Conference on Engineering and Business Education, vol.3, no.1, 2019, pp.338-343, <https://doi.org/10.2478/cplbu-2020-0040>
- [C14] Aifadopoulou, G., Tsaples, G., Grau, J. M. S., & Tzenos, P. (2020, September). Autonomous port vehicles fleet management: analyzing the effect of GNSS limitations. In *2020 IEEE 23rd International Conference on Intelligent Transportation Systems (ITSC)* (pp. 1-6). IEEE.
- [C15] Armenia, S., Tsaples, G., Papathanasiou, J., Barnabè, F., & Nazir, S. (2022). SYSTEMS THINKING AS A KEY COMPETENCE FOR SUSTAINABLE DEVELOPMENT AND DIGITAL TRANSFORMATION. In ICERI2022 Proceedings (pp. 2006-2011). IATED.
- [C16] Tsaples, G., Papathanasiou, J. (2022). Digital Transformation And Sustainable Development For Private And Public Organizations: Barriers And Opportunities. 27th International Scientific Conference- Strategic Management and Decision Support Systems in Strategic Management SM2022., DOI: 10.46541/978-86-7233-406-7_194
- [C17] Aretoulis, G., Aretouli, E., Armenia, S., Miricescu, D., Papathanasiou, J., Stanković, J., & Tsaples, G. (2023). Critical Success Parameters For Online And Distance Education Before, During And After The Covid-19 Pandemic. In ICERI2023 Proceedings (pp. 8875-8879). IATED.
- [C18] Aretoulis, G., Aretouli, E., Armenia, S., Miricescu, D., Papathanasiou, J., Stanković, J., & Tsaples, G. (2023). LEARNING PREFERENCES THROUGH DISTANCE EDUCATION AND

THE ASSOCIATION WITH STUDENTS'PROFILE. In ICERI2023 Proceedings (pp. 9218-9224). IATED.

[C19] G. Tsaples, S. Armenia, T. De Angelis (2024) ADDRESSING CHALLENGES AND ENHANCING PROSPERITY: THE OREN PROJECT'S INNOVATIVE APPROACH TO RURAL ENTREPRENEURIAL EDUCATION, INTED2024 Proceedings, pp. 3119-3124.

[C20] G. Tsaples (2024) UNLOCKING INSIGHTS: NATURAL LANGUAGE PROCESSING ANALYSIS OF CASE STUDIES IN THE OREN PROJECT, INTED2024 Proceedings, p. 3125.

[C21] G. Aretoulis, E. Aretouli, P. Digkoglou, D. Manou, J. Papathanasiou, G. Tsaples (2024) GREEK UNIVERSITY STUDENTS' PREFERRED LEARNING STYLES IN THE CONTEXT OF DISTANCE EDUCATION, INTED2024 Proceedings, pp. 7169-7176.

[C22] G. Aretoulis, E. Aretouli, P. Digkoglou, D. Manou, J. Papathanasiou, G. Tsaples (2024) DISTANCE EDUCATION PROGRAMS AND GREEK UNIVERSITY INSTRUCTORS: DEFINING AND ASSESSING THEIR TEACHING STYLES PREFERENCES, INTED2024 Proceedings, pp. 7243-7248.

[C23] G. Aretoulis, P. Digkoglou, D. Manou, J. Papathanasiou, G. Tsaples, E. Aretouli (2024) THE INFLUENCE OF THE STUDENT'S GENDER IN THE EXPERIENCE OF DISTANCE EDUCATIONAL PROGRAMS: THE CASE OF GREEK STUDENTS, INTED2024 Proceedings, pp. 7364-7368.

[C24] G. Aretoulis, P. Digkoglou, D. Manou, J. Papathanasiou, G. Tsaples, E. Aretouli (2024) CORRELATION AMONG STUDENTS' PROFILE AND DISTANCE EDUCATIONAL PROGRAMS, INTED2024 Proceedings, pp. 7476-7482.

[C25] Aretouli, E., Papathanasiou, J., Konstantinopoulou, E., Armenia, S., Miricescu, D., Stanković, J., Tsaples, G. and Aretoulis, G., 2024. GENDER DIFFERENCES IN BELIEFS AND PREFERENCES ABOUT DISTANCE LEARNING AMONG EDUCATORS: EVIDENCE FROM FOUR EUROPEAN COUNTRIES. In INTED2024 Proceedings (pp. 7323-7328). IATED.

[C26] Aretoulis, G., Armenia, S., Miricescu, D., Papathanasiou, J., Stanković, J., Tsaples, G., & Aretouli, E. (2024). OPTIMIZING DISTANCE LEARNING EDUCATIONAL PROGRAMS: THE RATIONALE AND METHODOLOGY OF AN INNOVATIVE AND EFFECTIVE FRAMEWORK. In INTED2024 Proceedings (pp. 6845-6852). IATED.

[C27] Georgiou, A., Thanassoulis, E., Kaparis, K., & Tsaples, G. (2025, February). Data Envelopment Analysis and Markovian Models in Efficiency Evaluation of Hierarchical Systems. In *15th Annual International Conference on Industrial Engineering and Operations Management*, <https://doi.org/10.46254/AN15.20250039>.

Chapters in Edited books after review

[EC1] Tsaples G., Tarnanidis T. (2017): A System Dynamics Model and Interface for the Simulation and Analysis of Milk Supply Chains, *In Book: Driving Agribusiness with Technology Innovations*, p.311-335

[EC2] Tsaples, G., Papathanasiou, J., Ploskas, N. (2017). Integrating System Dynamics with Exploratory MCDA for Robust Decision-Making. In: Linden, I., Liu, S., Colot, C. (eds) *Decision Support Systems VII. Data, Information and Knowledge Visualization in Decision Support Systems. ICDSSST 2017. Lecture Notes in Business Information Processing*, vol 282. Springer, Cham. https://doi.org/10.1007/978-3-319-57487-5_13

[EC3] Ploskas, N., Papathanasiou, J., Tsaples, G. (2017). Implementation of an Extended Fuzzy VIKOR Method Based on Triangular and Trapezoidal Fuzzy Linguistic Variables and Alternative Defuzzification Techniques. In: Linden, I., Liu, S., Colot, C. (eds) *Decision Support Systems VII. Data, Information and Knowledge Visualization in Decision Support Systems. ICDSSST 2017. Lecture Notes in Business Information Processing*, vol 282. Springer, Cham. https://doi.org/10.1007/978-3-319-57487-5_12

[EC4] Myrovali, G., Tsaples, G., Morfoulaki, M., Aifadopoulou, G., Papathanasiou, J. (2018). An Interactive Learning Environment Based on System Dynamics Methodology for Sustainable Mobility Challenges Communication & Citizens' Engagement. In: Dargam, F., Delias, P., Linden, I., Mareschal, B. (eds) *Decision Support Systems VIII: Sustainable Data-Driven and Evidence-Based Decision Support. ICDSSST 2018. Lecture Notes in Business Information Processing*, vol 313. Springer, Cham. https://doi.org/10.1007/978-3-319-90315-6_8

[EC5] Armenia, S., Tsaples, G., Carlini, C. (2018). Critical Events and Critical Infrastructures: A System Dynamics Approach. In: Dargam, F., Delias, P., Linden, I., Mareschal, B. (eds) *Decision Support Systems VIII: Sustainable Data-Driven and Evidence-Based Decision Support. ICDSSST 2018. Lecture Notes in Business Information Processing*, vol 313. Springer, Cham. https://doi.org/10.1007/978-3-319-90315-6_5

[EC6] Tsaples, G., Papathanasiou, J., Georgiou, A.C., Samaras, N. (2019). Assessing Multidimensional Sustainability of European Countries with a Novel, Two-Stage DEA. In: Freitas, P., Dargam, F., Moreno, J. (eds) *Decision Support Systems IX: Main Developments and Future Trends. EmC-ICDSSST 2019. Lecture Notes in Business Information Processing*, vol 348. Springer, Cham. https://doi.org/10.1007/978-3-030-18819-1_9

[EC7] Stamos I., Salanova Grau J.M., Chaniotakis E., Tsaples G., Mitsakis E. (2019), Assessment of C-ITS network performance scalability and transferability, *In Book: Cooperative Intelligent Transport Systems: Towards high-level automated driving*, pp.213-233, IET Digital Library

[EC8] Tsaples, G., Papathanasiou, J. (2020). Using Multi-level DEA to Go Beyond the Three Dimensions of Sustainability. In: Moreno-Jiménez, J., Linden, I., Dargam, F., Jayawickrama, U. (eds) *Decision Support Systems X: Cognitive Decision Support Systems and Technologies. ICDSSST 2020. Lecture Notes in Business Information Processing*, vol 384. Springer, Cham. https://doi.org/10.1007/978-3-030-46224-6_2

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- [EC12] Blouchoutzi, A., Tsaples, G., Manou, D., Nikas, C. (2022). Strengthening EU Resilience: Labor Market Integration as a Criterion for Refugee Relocation. In: Cabral Seixas Costa, A.P., Papathanasiou, J., Jayawickrama, U., Kamissoko, D. (eds) *Decision Support Systems XII: Decision Support Addressing Modern Industry, Business, and Societal Needs. ICDSSST 2022. Lecture Notes in Business Information Processing*, vol 447. Springer, Cham. https://doi.org/10.1007/978-3-031-06530-9_6
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- [EC14] Tsaples, G., Armenia, S. (2025). Regional Patterns and Dynamics of Rural Entrepreneurship: Insights from European Case Studies and NLP Analysis. In: Moosaei, H., Kotsireas, I., Pardalos, P.M. (eds) *Dynamics of Information Systems. DIS 2024. Lecture Notes in Computer Science*, vol 14661. Springer, Cham. https://doi.org/10.1007/978-3-031-81010-7_21
- [EC15] Franco, E., Armenia, S., Christou, O., Tsaples, G., Uribe-Toril, J., & Papathanasiou, J. (2025). A System Dynamics Model to Promote Awareness of the Green Transition Challenges in Higher Education Institutions. In *International Conference on Decision Support System Technology* (pp. 127-138). Springer, Cham.
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- [EC17] Armenia, S., Tsaples, G., De Angelist, T. (2026). Rural Economy: Innovating Managerial Education and Decision-Making Tools. In Dario Carrera (Ed.) *Impact Innovation in The Wider Mediterranean. Opening the Debate on a New Geography of Social and Economic Transformation*. WriteUP

Edited Books

- [B1] Papathanasiou, J., Tsaples, G., & Blouchoutzi, A. (2021). *Urban Sustainability*. Springer.

Technical Publications

- [T1] Armenia, S., Carlini, C., Tsaples, G. (2014) CRISADMIN - Development of the base reference information and design of the model's data set. Project CRITICAL Infrastructure Simulation of ADVANCED Models on Interconnected Networks resilience (Project reference No: HOME/2011/CIPS/AG/4000002116)

- [T2] Armenia, S., Carlini, C., Tsaples, G. (2014) Final Report Project CRITICAL Infrastructure Simulation of ADvanced Models on Interconnected Networks resilience (Project reference No: HOME/2011/CIPS/AG/4000002116)
- [T3] Armenia, S., Carlini, C., Tsaples, G. (2014) CRISADMIN Model Testing & Validation (Project reference No: HOME/2011/CIPS/AG/4000002116)
- [T4] Armenia, S., Carlini, C., Tsaples, G., Volpetti, C., Biondi, G., Onori, R., Caiola, L. (2016) Final Report. Project ATTACS - Assessing the economic impacts of Terrorist Threats or Attacks following the Close down of public transportation Systems (Project reference No: HOME/2013/CIPS/AG/4000005083)
- [T5] Tsaples, G., Tarnanidis, T., Papathanasiou, J. (2017), Deliverable D1.1: Literature Review on Racism in Football. Project *BRISWA- The Ball Rolls in the Same Way for All*
- [T6] Tarnanidis, T., Tsaples, G., Papathanasiou, J. (2017), Deliverable D1.3: Report on the analysis of the results: The analysis and explanation of the collected information. Project *BRISWA- The Ball Rolls in the Same Way for All*
- [T7] Tsaples, G., Digkoglou, P., Papathanasiou, J. (2018), Output 3 - Book on decision making in the context of sustainability. Project *SUSTAIN - Game-Based Learning on Urban Sustainability*
- [T8] Tsaples, G., Salanova, J.M. (2019), Deliverable D5.3: Results of the Simulation. Project *LOGIMATIC-Tight integration of EGNSS and on-board sensors for port vehicle automation (H2020-GALILEO-GSA-2015-1)*
- [T9] Onori, R., Armenia, S., Pompei, A., Tsaples, G. - [LCU] (2020) Categorization of engagement and behavior change techniques in sustainable mobility plan steps. Project e-smartec. (<https://projects2014-2020.interregeurope.eu/e-smartec/>)
- [T10] Tsaples, G., Papathanasiou, J., Armenia, S. (2021) Guide on educational needs in Europe and state of the art on the use of Systems Thinking in digital transformation and sustainable development. Project SYSTEMA (2020-1-IT02-KA204-080082)
- [T11] Gianni, M., Tsaples, G., Papathanasiou, J., Garane, S., Monova-Zheleva, M., Anohina-Naumeca, A., Casalino, N., Olivieri, M. (2022) Research on digital transformation needs in European Higher Education Institutes. Project EDUGATE (2020-1-IT02-KA226-HE-095538)
- [T12] SYMPLEXIS, IDS (2022). PR1 Survey of the most promising rural business models and stakeholders' map. OREN Multi-stakeholder platform for rural entrepreneurs (E+, Grant Agreement No: 2021 -1- IT02-KA220-ADU000033510)
- [T13] Tsaples, G., Papathanasiou, J. (2023) Teachers' guide on „Using simulation-based learning for supporting SE students practice green skills”, Project SDGLabs (Harnessing the potential of the Social Economy towards a green transformation through the establishment of Socially Driven Green Labs within Universities 2021-1-PL01-KA220- HED-000032077)
- [T14] Tsaples, G., Papathanasiou, J., Dranikowska, A., Dereżyńska, K., Ziola, O. (2023) (2023) SDGLabs Simulation Models, Project SDGLabs (Harnessing the potential of the Social Economy

towards a green transformation through the establishment of Socially Driven Green Labs within Universities 2021-1-PL01-KA220- HED-000032077)

[T15] Aretoulis, G., Manou, D., Tegos, N., Papathanasiou, J., Tsaples, G., Digkoglou, P., Miricescu, D., Kifor, C., Armenia, S., De Angelis, T., Balleri, L., Messuri, I., Stankovic, J., Milanovic, S., Marjanovic, I., Milic, V., Aretouli, E., Konstantinopoulou, E. (2024), Deliverable 2.1: Identifying the critical success parameters, ODLEP Project (Optimizing Distance Learning Educational Programs, Project reference No: 2022-1-EL01-KA220-HED-000089152)

[T16] Blouchoutzi, A., Tsaples, G. (2024), EU MMS A monitoring system in the service of EU migration policy, Project EU MMS (University Of Macedonia Research Fund under the Basic Research 2023 funding programme)

[T17] Fco Javier Orquín Castrillón, Carmen Daniela Quero, Georgios Tsaples (2025), State of the Art Analysis, BRISWA 2.0 (Project Reference No. KA220-HED-57DAE8A7 – 000154019)

[T18] Aretoulis, G., Manou, D., Tegos, N., Papathanasiou, J., Tsaples, G., Digkoglou, P., Miricescu, D., Kifor, C., Armenia, S., De Angelis, T., Balleri, L., Messuri, I., Stankovic, J., Milanovic, S., Marjanovic, I., Milic, V., Aretouli, E., Konstantinopoulou, E. (2024), Deliverable 3.1: Matching Algorithm, ODLEP Project (Optimizing Distance Learning Educational Programs, Project reference No: 2022-1-EL01-KA220-HED-000089152)

[T19] Aretoulis, G., Manou, D., Tegos, N., Papathanasiou, J., Tsaples, G., Digkoglou, P., Miricescu, D., Kifor, C., Armenia, S., De Angelis, T., Balleri, L., Messuri, I., Stankovic, J., Milanovic, S., Marjanovic, I., Milic, V., Aretouli, E., Konstantinopoulou, E. (2024), Deliverable 3.2: The ODLEP Platform, ODLEP Project (Optimizing Distance Learning Educational Programs, Project reference No: 2022-1-EL01-KA220-HED-000089152)

Scientific Databases

[DB1] Aretoulis, G., MANOU, D., Tegos, N., Papathanasiou, J., Tsaples, G., Digkoglou, P., Miricescu, D., Kifor, C., Armenia, S., De Angelis, T., balleri, . lara ., Messuri, I., Stankovic, J., Milanovic, S., Veselinovic Marjanovic, I., Jankovic-Milic, V., Aretouli, E., & Konstantinopoulou, E. (2024). ODLEP Knowledge Repository [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.10909276> (<https://zenodo.org/records/10909276>)

[DB2] Tsaples, G., Armenia, S., Guraziu, E., Popov, M., Kraus, L., Lisai, S., Paganini, M., Redko, V., & Scipinotti, V. (2024). OREN Knowledge Repository: A database of programs, best practices and general data for rural entrepreneurs [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.10912755> (<https://zenodo.org/records/10912755>)

[DB3] Blouchoutzi, A., & Tsaples, G. (2025). A Migration Potential Index Bridging Aspirations and Capabilities [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.15602802> (<https://zenodo.org/records/15602802>)

Digital Tools/Simulators

Project SDGLabs (Harnessing the potential of the Social Economy towards a green transformation through the establishment of Socially Driven Green Labs within Universities 2021-1-PL01-KA220- HED-000032077)

[DT1]	https://exchange.iseesystems.com/public/georgios-tsaples/bass-model-of-diffusion	Bass model of diffusion	<i>The objective of the model is for students to understand what is the potential market of a new business and how potential clients can become actual clients. The exercise contains two models: one qualitative and one quantitative.</i>
[DT2]	https://exchange.iseesystems.com/public/georgios-tsaples/sdglabs-model-3	Success to the successful CLD	<i>The objective of the model is to explain to students how two entities that compete for the same resource (either resource or market share) could become sustainable or fall out of business</i>
[DT3]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-models-4-5	Escalation(CLD & quantitative)	<i>The purpose of the two models is to describe how a systemic escalation can occur. Escalation is a type of behavior where two similar entities attempt to gain an advantage one over the other, very often in detriment to the environment</i>
[DT4]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-6	Positive feedback in the economy	<i>The objective of the model is to illustrate how real-life economy can escape typical equilibrium situations as described in traditional economic theories</i>
[DT5]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-7	Positive feedback in the economy 2	<i>The current model updates the previous one in the following manner: the price of each meal that is prepared by the represented social bistro is not determined automatically by the model. Instead the student can set their own price for only one of the social enterprises; the other enterprise keeps the same, automated mechanism. Moreover, the complexity of the decision that the students need to take increases as they will have</i>

			<i>to keep track of Revenues, Costs and the Market Share of the social enterprise whose price they can control.</i>
[DT6]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-8	<i>Profitability and social impact 1</i>	<i>The current model is a continuation of the previous one. Its objective is to allow students to experiment with various policies and investigate how they can establish profitable businesses, with a positive social impact, while continuing to be subject to random market forces.</i>
[DT7]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-9	<i>Profitability and social impact 2</i>	<i>The model further continues as an update of the previous one. The students can experiment with the price per meal and the percentage of the meals that are returned to the community for both social enterprises and are asked to simulate and test different scenarios to investigate the complexity that social entrepreneurs face in their effort to sustain a business and make a meaningful social impact.</i>
[DT8]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-10	<i>Recycling material</i>	<i>The objective of the model is to illustrate how companies/enterprises can use recycling as a means to reduce their dependencies (and costs) from finite resources.</i>
[DT9]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-11	<i>Recycling material & learning</i>	<i>The current model is a continuation of the previous one. Its purpose is to introduce a policy structure that represents efforts to teach and inform people about the merits of recycling. As case study, the Fundacja Inspekt social enterprise is used in the model.</i>
[DT10]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-12	<i>Housing dynamics 1</i>	<i>The objective of the model is to simulate the housing market and attempt to find</i>

			<i>solutions to various problems that would be beneficial without producing unintended consequences</i>
[DT11]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-13	<i>Housing dynamics 2</i>	<i>The objective of the current model is to develop and present a quantitative version of the Causal Loop Diagram of the previous model</i>
[DT12]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-14	<i>Housing dynamics 3</i>	<i>The objective of the current model is to expand the previous one and account for newer and older buildings. Thus, the model attempts to represent an ongoing effort of social enterprise and policy makers to modernize older buildings and make them more sustainable and carbon neutral.</i>
[DT13]	https://exchange.iseesystems.com/public/georgios-tsaples/sdglabs-model-15	<i>Housing dynamics 4</i>	<i>The current model continues the trend of updating the previous one. In this setting, not only the buildings/homes sector, but an entire urban environment is modelled.</i>
[DT14]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-16	<i>Urban Dynamics and social impact</i>	<i>Model 16 closes the housing section of the models with an even more complex expansion of the previous models. The students are asked first to simulate the model with the given values and observe the various dynamics that are formed. Following the base case simulation, the students are led to a dashboard with a plethora of policies and options to choose from.</i>
[DT15]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-17	<i>Households and Energy 1</i>	<i>The current model begins a new cycle of models that are focused on the energy sector. It asks the student to make the assumption that they have founded a social enterprise that is focused on installing and</i>

			<i>maintaining photovoltaic panels on households.</i>
[DT16]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-18	<i>Households and Energy 2</i>	<i>The current model is an expansion and update of the previous one: In the previous model, the focus was on increasing the production of energy for households from renewable sources (solar). However, any attempt towards sustainability will have to include reduction in the consumption of energy.</i>
[DT17]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-model-19	<i>Energy Transitions 1</i>	<i>The purpose of the model is to illustrate in a simple manner how countries have dealt with the transition from coal plants to natural gas plants for the production of electricity</i>
[DT18]	https://exchange.iseesystems.com/public/georgios-tsaples/sdg-labs-models-20-21	<i>Energy Transitions 2</i>	<i>The last model entails a double update of the previous one. In the first update, the students are asked to ponder about how transition from coal plants to natural gas can be hindered or accelerated from geopolitical events like the war in Ukraine. In the final update of the model, all resources for power generation are considered and in addition, a cost structure for all of them has been included.</i>
OREN - Multi-stakeholder platform for rural entrepreneurs (Erasmus+ KA2 Adult Education 2021-1-IT02-KA220-ADU-000033510)			
[DT19]	https://app.pathfwd.io/@gtsaples/oren_dairy_chain?s=B8f8bfBIQhOnulCDMIFiOQ	<i>Dairy supply chain</i>	<i>A simplified dairy supply chain model tracing the journey of milk from farm animals through processing facilities to end consumers. It captures each stage—production, collection, processing, packaging, and distribution—highlighting key flows and decision points.</i>

[DT20]	https://app.pathfwd.io/@gtsaples/oren?s=d-00SjsHSGGEt1ddv2Ccrg	Rural Business model	<i>An agricultural systems model exploring how rural businesses interact with their surrounding environment.</i> <i>It integrates population dynamics, operations, soil quality, and climate factors like rainfall to simulate long-term viability and impact.</i>
BRISWA 2.0 The Ball Rolls in the Same Way for All in Higher Education (KA220-HED-57DAE8A7-000154019)			
[DT21]	https://exchange.iseesystems.com/public/georgios-tsaples/briswa-20-interactive-learning-environment-on-policy-design-against-racism/index.html	Fight Against Racism model	<i>This model explores how racism in football evolves over time through the interaction between fans, institutions, and societal forces.</i> <i>It represents racism as a dynamic system, where feedback loops drive escalation or resolution.</i> <i>The model helps test how interventions — such as education, sanctions, transparency, or representation — influence outcomes like racist incidents, fan radicalization, and club costs.</i> <i>It links individual behaviour (fan radicalization), institutional response (deterrence, trust), and social context (societal racism) in a unified simulation.</i>

HONORS AND AWARDS

I have been awarded the EURO Working Group on Decision Support Systems 2018-Award with the paper:

An Interactive Learning Environment Based on System Dynamics Methodology for Sustainable Mobility Challenges Communication & Citizens' Engagement

PROFESSIONAL TRAINING

Certificate in Sustainable Energy Design of Buildings **01/10/2018–15/07/2019**

Ethnikon kai Kapodistriakon Panepistimion Athinon, Athens (Greece)

Certificate in GDPR/DPO Training **24/04/2020-15/07/2020**

Ethnikon kai Kapodistriakon Panepistimion Athinon, Athens (Greece)

PROFESSIONAL SERVICE

Guest editor

Kybernetes Special Issue "Promoting Sustainable Decision-making"

Systems Special Issue "Systemic and Quantitative Methods for the Analysis of Societal Threats"

Reviewer for the Journals:

- Kybernetes
- Computer Science and Information Systems
- Lecture Notes in Business Information Processing
- Royal Society Open Science
- Renewable and Sustainable Energy Reviews
- Scientific Reports

Expert Evaluator

-EIT Urban Mobility (External Evaluator)

2020 – ongoing

-EIT Culture and Creativity (External Evaluator)

2025

LANGUAGES

Greek: Native Language

English: Professional Speaker, reader and writer (Level C2)

Italian: Intermediate (Level B1)

COMPUTER SKILLS

Programming: Python, R

Applications: Vensim, ithink, powersim, silico (System Dynamics modeling software), Netlogo (Agent Based modeling software)