



# **CURRICULUM VITAE**

**George ARAMPATZIS**

**Associate Professor  
School of Production Engineering and Management  
Technical University of Crete**

**April 2026**

## SUMMARY



Dr. George ARAMPATZIS is an **Associate Professor** at the **Technical University of Crete (TUC)**, School of Production Engineering and Management; a **Visiting Professor** at **Imperial College London (ICL)**, Department of Civil and Environmental Engineering; a **Collaborating Faculty Member** of the **Foundation for Research and Technology – Hellas (FORTH)**, Institute of Geoenergy; and **Founder & General Manager** of the spin-off company **Viridiance Insights**.

He was born in 1967 in Nea Vyssa, Greece. In 1991, he obtained a **Diploma in Chemical Engineering** from the School of Chemical Engineering of the **National Technical University of Athens (NTUA)**, and in 2000 he was awarded a **PhD in Engineering** from the same School.

From 1992 to 1998, he worked as a **Consulting Engineer** at **SPEED** Development Consultants S.A. From 2000 to 2014, he served as a **Postdoctoral Researcher**, and from 2014 to 2018 as **Laboratory Teaching Staff** at **NTUA**.

In April 2018, he joined the academic community of the Technical University of Crete, initially serving as an **Assistant Professor** at the School of Production and Management Engineering. In September 2022, he was promoted to the rank of **Associate Professor** in the scientific field of **Heat Transfer and Process Engineering**.

His scientific interests focus on the **Twin Green and Digital Transition**, with his research structured around four complementary pillars that act as catalysts for sustainable and resilient development: **Digitally Supported Process Engineering and Industrial Automation (Industry 4.0 & 5.0)**, **Circular Economy**, and **Energy and Environmental Systems Management**. A central element of his research activity is the exploitation of emerging **Information and Communication Technologies (ICT)** for the design and implementation of innovative solutions in critical productive sectors, including industry, agriculture, energy systems, water resources management systems, and livestock farming. Particular emphasis is placed on the development of advanced **Process and System Modelling and Optimization** methodologies, as well as on the use of **Artificial Intelligence** for the creation of **Digital Twins** and **Cyber-Physical Systems**, supporting the transition toward intelligent, interconnected, and efficient production systems.

From the academic year 2018–2019 to the present, he has been teaching **Heat Transfer** and **Fluid Mechanics** in the Undergraduate Programme, and **Rational Energy Management of Production Systems** in the Doctoral Programme of the School of Production and Management Engineering. Since 2023, he has been teaching **Transport Phenomena II** at the School of Chemical Engineering of TUC (co-taught with the course Heat Transfer). Since 2020, he has been teaching **Smart and Sustainable Systems in Agriculture and Water Management** at the Mediterranean Agronomic Institute of Chania (CIHEAM MAICh) as a visiting professor.

In 2021, he founded and has since coordinated the **Digital and Industrial Innovations Research Group “indigo”** (<https://www.indigo.tuc.gr/>) at the Technical University of Crete, involving more than 20 researchers (faculty members, laboratory teaching staff, postdoctoral researchers, and PhD candidates).

In 2025, he founded and has since served as **General Manager** of the university spin-off company **Viridiance Insights** (<https://www.viridiance.eu/>), the first spin-off established at the Technical University of Crete under the legislative framework of **Law 4864/2021**, aiming at knowledge valorisation and technology transfer developed by the indigo research group.

In 2021, he also founded and has since coordinated the **Academic–Public–Private Innovation Alliance “In Crete”** (<https://in-crete.org/>), involving all academic and research institutions of Crete, with the objective of promoting circular economy actions across the region.

In 2025, he founded and has since mentored the **student group “InnoGo”** (<https://innogo.indigo.tuc.gr/>), consisting of ten students active at the Technical University of Crete. The group participates in national and European competitions, achieving significant distinctions.

He is **Principal Investigator** of **22** Research Projects, mainly funded by the European Commission, with a total budget of **€8.2 million** for the indigo research group to date. Among these, he serves as **Coordinator** of **4** projects and **Technical and Scientific Manager** of **2** projects.

His research activity has resulted in a substantial body of **Publications: 65** articles in peer-reviewed international journals (**41** in the last five years), **96** conference proceedings papers (**57** in the last five years), **6** educational textbooks (**2** in the last five years), and **5** chapters in edited volumes (**2** in the last five years). His published work has received **2,828** citations (**1,878** in the last five years), with an h-index of **24** (**20** in the last five years) and an i10-index of **53** (**44** in the last five years) (Google Scholar, 17/04/2026).

He maintains an active **International Research and Scientific Presence**, being a member of several **European Networks**, including **ICT4Water** (<https://www.fiware4water.eu/ict4water/>), **BRIDGE** (<https://www.h2020-bridge.eu/>), **CCRI** (<https://circular-cities-and-regions.ec.europa.eu/>), **ECOSYSEX** (<https://www.ecosystex.eu/>), and **SUSAN** (<https://susanhub.com/>). He is the institutional representative of the Technical University of Crete for the Lighthouse Mission **“Process Automation and Industry 4.0”** of **EURECA-PRO** (European University on Responsible Consumption and Production) a collaborative alliance of nine European universities focusing on responsible consumption and production (<https://www.eurecapro.eu/>).

He also maintains an active **Social and Regional Engagement**, collaborating closely with local stakeholders, particularly with the **Region of Crete**. His roles include: Scientific Coordinator and Representative of TUC at the **Vangelis Grigoroudis Idea Incubator** (an action of the Regional Observatory for Innovative Entrepreneurship of Crete); deputy member of the **Regional Research and Innovation Council** of Crete; Coordinator of regional innovation projects involving the Region of Crete (such as CSSBoost, through which Crete has been recognised as a **Circular Region** by the European Commission’s CCRI initiative); evaluator in the **Innovative Entrepreneurship Awards** and participant as a jury member in Hackathons organised by the Region of Crete; and invited speaker and/or panelist in numerous regional events.

## 1 PERSONAL INFORMATION

<b>Name</b>	George ARAMPATZIS
<b>Home Address</b>	Parodos Andronikou 6, 73136 Chania, Crete, Greece
<b>Work Address</b>	School of Production Engineering and Management, University Campus, 73100 Chania, Crete, Greece
<b>Phone</b>	W: (+30) 2821037365, H: (+30) 2821050949, M: (+30) 6972550473
<b>Place and Date of Birth</b>	Nea Vyssa, Orestiadou, Greece; September 13 <sup>th</sup> , 1967
<b>Email</b>	<a href="mailto:garampatzis@tuc.gr">garampatzis@tuc.gr</a>
<b>Personal Web Page</b>	<a href="https://www.indigo.tuc.gr/team/arampatzis/">https://www.indigo.tuc.gr/team/arampatzis/</a>

## 2 EDUCATION

- 2000 Doctor Engineer**  
National Technical University of Athens, School of Chemical Engineering  
*Thesis: "Simulation of Transport Phenomena in Solidification Processes"*
- 1991 Diploma in Chemical Engineering**  
National Technical University of Athens, School of Chemical Engineering  
*Thesis: "Numerical Diffusion in Atmospheric Pollution Problems"*

## 3 LANGUAGES

- Mother Tongue** Greek
- Other language(s)** English (excellent)

## 4 PROFESSIONAL EXPERIENCE

### 4.1 Employment

- April 2018– Today Faculty / Teaching and Research Staff**  
School of Production Engineering & Management, Technical University of Crete
- **Associate Professor** (Sep 2022–Today) *Discipline: "Heat Transfer and Process Engineering"*
  - **Assistant Professor** (April 2022–Sep 2022) *Discipline: "Heat Transfer"*
- July 2022–Today General Manager**  
Viridiance Insights (Spin-off of Technical University of Crete)
- 2014–2018 Laboratory Teaching Staff**  
*Discipline: "Heat & mass transfer and energy conversion processes"*  
School of Chemical Engineering, National Technical University of Athens
- 2000–2014 Post-Doctoral Researcher**  
Environmental and Energy Management Research Unit, School of Chemical Engineering, National Technical University of Athens
- 1992–1998 Consultant**  
S.P.E.E.D. Development Consultants SA

### 4.2 Invited Positions

- Dec 2025–Today Visiting Professor**  
Imperial College London, Department of Civil and Environmental Engineering
- Jan 2025–Today Collaborating Faculty Member**  
Foundation of Research and Technology – Hellas (FORTH), Institute of GeoEnergy
- 2018–Today Visiting Professor**  
Mediterranean Agronomic Institute of Chania (CIHEAM MAICh)

## 5 TEACHING ACTIVITIES

### 5.1 Lectures in Undergraduate and Postgraduate Courses in Tech. Univ. of Crete

- 2018–Today Heat Transfer**  
7<sup>th</sup> Semester, School of Production Engineering and Management, Technical University of Crete
- 2018–Today Fluid Mechanics**  
6<sup>th</sup> Semester, School of Production Engineering and Management, Technical University of Crete
- 2023–Today Transport Phenomena II**  
5<sup>th</sup> Semester, School of Chemical and Environmental Engineering, Technical University of Crete
- 2018–Today Rational Energy Management of Production Systems**  
Postgraduate Programme, School of Production Engineering and Management, Technical University of Crete

### 5.2 Lectures in Postgraduate Courses in Mediterranean Agronomic Inst of Chania

- 2020–Today Smart and Sustainable Systems in Agriculture and Water Management**  
*(ex: ICT for Agriculture and Water Resources Management)*  
MSc Programme in Geoinformation and Environmental Management

### 5.3 Lectures as Guest Lecturer

- July 2026 Integrating Circular and Digital Pathways for Industrial Water Use**  
9th International Online Summer School on Wastewater & Biosolids Management – WWSS26
- February 2026 The Future of Sustainable Innovation and Ecopreneurship**  
EURECA-PRO The European University on Responsible Consumption and Production, Online Lecture Series II
- July 2024 Digitalization and Cyber-Physical Systems for Water Smart Process Industries**  
AquaSPICE Summer School: Achieving Water-Smart Management in the Process Industry – An Educational Perspective, Chania, Crete, Greece
- April 2024 Transition to Digital Water – Smart water systems and development of Digital Twins**  
Regional workshop “Circular economy in the water sector”, Bacau, Romania
- July 2023 Introduction to Industry 4.0**  
BEST Course Summer 2023, Industry 4.0: The path to digital (R)evolution, Chania, Crete, Greece
- July 2023 Experience from Successful Innovation Research Projects: Recommendations and Good Practices**  
18<sup>th</sup> Annual Seminar on the Information Society and the Knowledge Economy, Hermoupolis, Syros, Greece

- Sep 2022** **Advances in Digital Twins Processes**  
MODENERLANDS COST Action Training School 1, Chania, Crete, Greece
- June 2022** **Process Modelling and Simulation for Industrial Cognitive Digital Twins**  
Hybrid Workshop, Twin Digital and Green Transition to a Resilient Economy,  
Chania, Crete, Greece
- Dec 2021** **Accelerating Sustainable Production through Digital Transformation of Industry**  
EURECA-PRO The European University on Responsible Consumption and  
Production, Online Lecture Series II
- Nov 2020** **Cognitive Manufacturing – The role of process modelling and simulation**  
DAAD-Online-School 2020, Smart Artificial Materials digitally engineered

#### 5.4 Lectures in Postgraduate Courses in National Tech. Univ. of Athens

- 1999–2012** **Computer Aided Data Analysis**  
MSc Energy Management and Environmental Protection  
School of Chemical Engineering of National Technical University of Athens and  
Department of Industrial Management at the University of Piraeus
- 2001–2002** **Computational Methods in Decision Making**  
MSc Energy Management and Environmental Protection  
School of Chemical Engineering of National Technical University of Athens and  
Department of Industrial Management at the University of Piraeus

#### 5.5 Participation in Undergraduate Courses in National Tech. Univ. of Athens

- 2000–2018** **Transport Phenomena II: Heat and Mass Transfer**  
5<sup>th</sup> Semester, School of Chemical Engineering, National Technical University of  
Athens
- 2013–2018** **Rational and Sustainable Energy Management**  
8<sup>th</sup> Semester, School of Chemical Engineering, National Technical University of  
Athens
- 2002–2012** **Energy Analysis of Industrial Systems**  
8<sup>th</sup> Semester, School of Chemical Engineering, National Technical University of  
Athens
- 1992–1998** **Computational Methods in Transport Phenomena**  
School of Chemical Engineering, National Technical University of Athens

#### 5.6 Laboratory Teaching in National Tech. Univ. of Athens

- 2000–2018** **Computational Lab in Transport Phenomena II, Heat and Mass Transfer**  
5<sup>th</sup> Semester, School of Chemical Engineering, National Technical University of  
Athens
- 2002–2018** **Computational Lab in Rational and Sustainable Energy Management**  
8<sup>th</sup> Semester, School of Chemical Engineering, National Technical University of  
Athens

**2015–2018 Design and Process Analysis Laboratory, Unit Operations I and II**

(i) Heat exchanges (ii) Product drying  
5<sup>th</sup> and 6<sup>th</sup> Semesters, School of Chemical Engineering, National Technical University of Athens

**2017–2018 Computational Lab in Unit Operations**

6<sup>th</sup> Semester, School of Chemical Eng, National Technical University Athens

**5.7 Organisation of Educational Courses****2024 AquaSPICE Summer School**

Achieving Water-Smart Management in the Process Industry – An Educational Perspective, Chania, Crete, Greece

**2023 BEST, Board of European Students of Technology**

Course in Summer 2023: Industry 4.0: The path to digital (R)evolution, Chania, Crete, Greece

**5.8 Participation in Educational Projects****2023 Adrion Master On Circular Economy and Bioeconomy (AMOCEAB)**

**(TUC)** Development of a Strategy and Action Plan to foster Circular and Bio-Economy key principles in the Adriatic Area, with the creation of a Master's Degree Programme. Funded by the INTERREG ADRION Programme.

**2024-2028 Circular Economy for the Sustainable Earth Spheres- Geosphere, Biosphere, Hydrosphere & Atmosphere (ECO-SHPERE).****(TUC)**

HORIZON-MSCA-COFUND post-doctoral programme

**2023 MISIR – Eureka Pro Microproject****(TUC)**

Industrial Metaverse for Sustainable Training in Responsible Industry

**2006-2008 Building the Future of Transnational Cooperation in Water Resources in Southeast Europe (Educate!)”****(NTUA)**

Establishment of an international postgraduate course in Water Resources and Environmental Management. Funded by the INTERREG III B Cadses Programme.

**2004-2007 MSc Programme in Environmental Management, Engineering and Technology (EnvMed)****(NTUA)**

Funded by the European Commission, DG Education and Culture, in the framework of the EU funded TEMPUS Programme.

**5.9 Supervision of PhD and Diploma Theses**

**2019–Today** Supervision of 2 completed and 4 on-going PhD Theses

**2019–Today** Member of advisory committee of 6 completed PhD Theses

**2019–Today** Supervision of 32 completed diploma Theses

- 2019–Today** Member of examination committee of PhD Theses other institutions
- Ghent University, Belgium (**1** thesis)
  - Università Politecnica delle Marche, Italy (**2** theses)
  - National Technical University of Athens, Greece (**5** theses)

## 6 RESEARCH ACTIVITIES

### 6.1 Research Areas

- **Process and System Engineering**
  - Process Modelling
  - Simulation of Production Systems.
  - Analysis and Optimisation of Production Systems.
  - Computational Mechanics.
- **Information and Communication Technologies (ICT)**
  - Industry 4.0 and Industry 5.0.
  - Digital Twins and Cyber-Physical Systems.
  - Data Analytics and AI algorithms.
  - Product Digital Passports.
- **Circular Economy**
  - Resource Recycle & Reuse.
  - Industrial and Industrial-Urban Symbiosis.
  - Circular Cities and Regions.
- **Water Systems Engineering**
  - Water Demand Management and Forecasting.
  - Industrial Water Treatment and Management Technologies and Practices.
  - Water Desalination Systems Power by Renewable Energy.
- **Energy Systems Engineering**
  - Rational Energy Management in Industry, Transportation, Buildings and Agriculture.
  - Renewable and Hybrid Power Generation Systems.
  - Distributed Energy Systems.
  - Energy Market - Energy Communities.
  - Energy Demand Management and Forecasting.
- **Environmental Engineering**
  - Natural Resources Management.
  - Climate Change Adaptation Measures.
  - Nature Based Solutions.
  - Life Cycle and Eco-Efficiency Assessment.
- **Decision Making**
  - Decision Support Systems.
  - Multi-Criteria Decision Making.
  - Participatory Decision Making.

## 6.2 Participation in EU or National Funded Research and Innovation Projects

### European Research Projects as Coordinator

- 2025-2029** Flexible, Sustainable and Digitally-Enabled Solutions for Industrial Process Transformation (**ACT2Flex**), **Horizon Europe**.  
*(Project Coordinator and Principal Investigator of Technical University of Crete)*  
Budget for indigo team: 1,171,250 €
- 2024-2027** Boosting Circular Systemic Solutions through Virtual Regional Circular Economy Spaces (**CSSBoost**), **Horizon Europe**.  
*(Project Coordinator and Principal Investigator of Technical University of Crete)*  
Budget for indigo team: 1,196,250 €
- 2024-2027** Adriatic-Ionian Maritime Operational Efficiency and Sustainable Scheme (**AIMPRESS**), **INTERREG ADRION**  
*(Project Coordinator and Principal Investigator of Technical University of Crete)*  
Budget for indigo team: 316,625 €

### European Research Projects as Technical and Scientific Manager

- 2020-2025** Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovations (**AquaSPICE**), **Horizon 2020**.  
*(Technical & Scientific Manager and Investigator of Technical University of Crete)*  
Budget for indigo team: 570,000 €
- 2023-2026** A Sustainable Ecosystem for the Innovative Resource Recovery and Complex Ore Extraction (**XTRACT**), **Horizon Europe**.  
*(Technical & Scientific Manager and Investigator of Technical University of Crete)*  
Budget for indigo team: 331,750 €

### European Research Projects as Principal Investigator

- 2025-2029** A systemic multisectoral multi-stakeholder approach for coupling circularity and climate mitigation in industry, cities and regions (**SYSTEMICO**), **Horizon Europe**.  
*(Principal Investigator of Technical University of Crete)*  
Budget for indigo team: 366,875 €
- 2025-2029** Unlocking the potential of circularity with smart indicators (**CIRCONOMY**), **Horizon Europe**.  
*(Principal Investigator of Viridiance Insights)*  
Budget for *Viridiance Insights*: 191,125 €
- 2024-2029** A First of a kind Hub for circularity demonstrator for Attica and peripheral regions (**THESEUS**), **Horizon Europe**.  
*(Principal Investigator of Technical University of Crete)*  
Budget for indigo team: 428,750 €
- 2024-2027** Advancing the Digitization and Analysis of Dynamic Cultural Heritage Objects (**KINETIKA**), **Horizon Europe**.  
*(Principal Investigator of Technical University of Crete)*  
Budget for indigo team: 225,000 €
- 2024-2028** Streamlining the optimisation of Sustainable Thermal Energy systems and Prototype technologies in process industries (**STREAMSTEP**), **Horizon Europe**.  
*(Principal Investigator of Technical University of Crete)*  
Budget for indigo team: 410,000 €

- 2023-2025** Product Passport through Twinning of Circular Value Chains (**Plooto**), **Horizon Europe**.  
*(Principal Investigator of Technical University of Crete)*  
*Budget for indigo team: 571,875 €*
- 2021-2025** A Holistic Fire Management Ecosystem for Prevention, Detection and Restoration of Environmental Disasters (**TREEADS**), **Horizon 2020, Green Deal**.  
*(Principal Investigator of Technical University of Crete)*  
*Budget for indigo team: 545,625 €*
- 2019-2023** Energy-aware Factory Analytics for Process industries (**FACTLOG**), **Horizon 2020**.  
*(Principal Investigator of Technical University of Crete)*  
*Budget for indigo team: 347,450 €*
- 2020-2024** Smart integration of local energy sources and innovative storage for flexible, secure and cost-efficient energy supply on industrialized islands (**ROBINSON**), **Horizon 2020**.  
*(Principal Investigator of Technical University of Crete)*  
*Budget for indigo team: 194,375 €*
- 2023-2026** Space-Air-Ground Last Mile Infrastructure & Dynamic Programmable Distributed Environment for Edge Farming (**AGRARIAN**), **Horizon Europe**.  
*(Principal Investigator of CIHEAM-MAICh)*  
*Budget for indigo team: 153,750 €*
- 2022-2025** A Holistic Approach to Sustainable, Digital EU Agriculture, Forestry, Livestock and Rural Development based on Reconfigurable Aerial Enablers and Edge Artificial Intelligence-on-Demand Systems (**CHAMELEON**), **Horizon Europe**.  
*(Principal Investigator of CIHEAM-MAICh)*  
*Budget for indigo team: 283,750 €*
- 2021-2025** Dynamic Information Management Approach for the Implementation of Climate Resilient Adaptation Packages in European Regions (**IMPETUS**), **Horizon 2020, Green Deal**.  
*(Principal Investigator of CIHEAM-MAICh)*  
*Budget for indigo team: 231,750 €*
- 2023** Adrion Master On Circular Economy and Bioeconomy (**AMOCEAB**). **INTERREG ADRION**.  
*(Principal Investigator of Technical University of Crete)*  
*Budget for indigo team: 94,120 €*
- 2024-2028** Circular Economy for the Sustainable Earth Spheres- Geosphere, Biosphere, Hydrosphere & Atmosphere (**ECO-SHPERE**). **HORIZON-MSCA-COFUND Post-doctoral programme**.  
*(Principal Investigator of Technical University of Crete)*

#### **European Research Projects as Coordinator of External Expertise**

- 2025-2027** Communities Innovating Traffic Yielding a Multimodal Optimised Vicinal Environment (**CITYMOVE**) **INTERREG ADRION**.  
*(Principal Investigator of Technical University of Crete)*  
*Budget for indigo team: 36,290 €*

**National Research Projects as Coordinator and Principal Investigator**

- 2023-2025** Air-Pollution Alleviation in urban areas through parking spaces Innovative exploitation towards climate change mitigation (**ParkIn**), **Greek Green Fund**.  
*(Project Coordinator and Principal Investigator of Technical University of Crete)*  
*Budget for indigo team: 120,000 €*

**National Research Projects as Principal Investigator**

- 2023-2025** Network of Excellence for the Development, Dissemination and Application of Digital Transformation Technologies in the Greek Manufacturing Industry (**Greece4.0**), **Flagship Actions of GSRI**.  
*(Principal Investigator of Technical University of Crete)*  
*Budget for indigo team: 213,625 €*

**Scientific Equipment Procurement Projects**

- 2024** Universities of Excellence, Ministry of Education, Religious Affairs, and Sports.  
*(Head of research team)*  
Proposal title: "Equipment for a Center of Excellence at the Technical University of Crete for Research and Application in the Context of Industry 4.0"  
*Budget for the team: 875,214 €*

**Research Projects as Senior Researcher of NTUA**

- 2016–2019** Demonstrating synergies in combined natural and engineered processes for water treatment systems (**AquaNES**), **Horizon 2020**.
- 2017–2020** A digital solid waste reuse platform for Balkan (**SWAN**), **Interreg**, Balkan-Mediterranean.
- 2016-2019** Energy and Water Systems Integration and Management (**EdGeWiSE**), **ERANET-MED** Programme.
- 2011–2014** Meso-level eco-efficiency indicators to assess technologies and their uptake in water use sectors (**EcoWater**), **7<sup>th</sup> Framework Programme**.
- 2012–2015** Water Enhanced Resource Planning "Where water supply meets demand" (**WatERP**), **7<sup>th</sup> Framework Programme**.
- 2011–2015** Technologies for Water Recycling and Reuse in Latin America Content: Assessment, Decision Tools and Implementable Strategies Under an Uncertain Future (**Coroado**), **7<sup>th</sup> Framework Programme**.
- 2011–2014** Fostering European Drought Research and Science-Policy Interfacing (**DROUGHT-R&SPI**), **7<sup>th</sup> Framework Programme**.
- 2010–2012** Water availability and Security in Southern Europe and the Mediterranean (**WASSERMed**), **7<sup>th</sup> Framework Programme**.
- 2006-2011** Sustainable Water Management Improves Tomorrow's Cities' Health (**SWITCH**), **6<sup>th</sup> Framework Programme**.
- 2006–2009** Optimal Engineering Design for Dependable Water and Power Generation in Remote Areas Using Renewable Energies and Intelligent Automation (**OPEN-GAIN**), **6<sup>th</sup> Framework Programme**.
- 2006–2009** Institutional and Economic Instruments for Sustainable Water Management in the Mediterranean Region (**INECO**), **6<sup>th</sup> Framework Programme**.

- 2005–2008** Mitigation of Water Stress Through New Approaches to Integrating Management, Technical Economic and Institutional Instruments (**AquaStress**), **6<sup>th</sup> Framework Programme**.
- 2004–2005** Developing Harmonized European Approaches for Transport Costing and Project Assessment (**HEATCO**), **6<sup>th</sup> Framework Programme**.
- 2004–2005** Improving Promotion of Electric Motor Systems (**Promot**), **SAVE Programme**.
- 2004** Implementation of Articles 5 & 6 of the Water Framework Directive 2000/60/EC in Cyprus, **Water Development Department of the Ministry of Agriculture, Natural Resources and Environment of Cyprus**.
- 2003–2006** Strengthening complementarity and exploitation of results related RTD projects dealing with water resources use and management in arid and semi-arid regions (**ARID**), **5<sup>th</sup> Framework Programme**.
- 2002–2005** Improving Competitiveness of SMEs through IT-Based Environmental Business Planning (**SMITE**), **MEDA Programme**.
- 2002–2005** Developing Strategies for Regulating and Managing Water Resources and Demand in Water Deficient Regions (**WaterStrategyMan**), **5<sup>th</sup> Framework Programme**.
- 1998-2001** Optimization of processes in refineries developing and applying catalysts. Operational Programme in Research and Technology, **GGET/EPET II**.
- 2001** Upgrading the Geographical Information System in use by OASA, Athens Urban Transport Organisation - **OASA**.
- 1999–2000** Policy Evaluation for Public Transport, **SAVE Programme**.
- 1998–2000** Mediterranean cooperation for water desalination policies in the perspective of a sustainable development (**MedCoDesal**), **INCO-DC Program**.
- 1995-1996** External Cost of Transport (**ExterneE**), **Joule III Programme**.
- 1995-1996** A decision support system for the integration of renewable energies into water system (**REDES**), **APAS Programme**.

### 6.3 Participation in European and International Research Clusters/Initiatives

- 2025-Today** **SUSAN** Sustainability Academic Network (<https://susanhub.com/>)
- 2024-Today** **ECOSYSTEMEX** The European Community of Practice for a Sustainable Textile Ecosystem (<https://www.ecosystemex.eu/>)
- 2024-Today** **CCRI** Circular Cities and Regions Initiative (<https://circular-cities-and-regions.ec.europa.eu/>),
- 2021-Today** **ICT4Water** Cluster for EU-funded research projects on ICT and Water Management (<https://ict4water.eu/>)
- 2020-Today** **BRIDGE** European Commission initiative which unites Horizon 2020 and Horizon Europe Smart Grid, Energy Storage, Islands, and Digitalisation Projects (<https://bridge-smart-grid-storage-systems-digital-projects.ec.europa.eu/>)
- 2023-Today** **LIAISE** COST Action CA22110 / Cooperation, development and cross-border transfer of Industrial Symbiosis among industry and stakeholders (<https://www.cost.eu/actions/CA22110/>)
- 2023-Today** **Hubs4Circularity** Community of Practice (<https://www.h4c-community.eu/>)

## 6.4 Evaluator of Research and Innovation Proposals

- 2024, 2025, 2026** **Horizon Europe** Research and Innovation Programme
- 2024** **Water4All** Partnership for Water Security for the planet
- 2024** **HFRI** Hellenic Foundation of Research and Innovation

## 7 RESEARCH EXPLOITATION

- 2025** **Establishment of the spin-off company “Viridiance Insights”**
- Commercial exploitation of research resultst:
    - i. Modeling and simulation software for complex discrete industrial production processes and value chains (result of the FACTLOG and AquaSPICE research projects).
    - ii. Methodology for the development of Sustainability Balanced Scorecards (result of the PLOOTO and Greece4.0 research projects).
  - The first spin-off company established at the Technical University of Crete under the legislative framework of [Law 4864/2021](#) and the Internal Regulations of the Technical University of Crete.

## 8 PUBLISHED WORK

### 8.1 Peer-Reviewed Scientific Journals

- A.64** E. Karkou, A. Angelis Dimakis, I. Hitsov, D. Gaublomme, R. Sanfeliu Pratf, D. Apostolou, D. Pournara, G. Mentzas, J. Alferesh, I. Mourtosi, S. Vatikiotis, A. Mousas, K. Kalaboukas, J. Wauman and G. Arampatzis. **Water-specific Cyber-Physical System to enhance Water-Efficiency in the Process Industry**. *Computers in Industry*, **2026**. *[under review]*  
**JCR IF: 9.1, Scopus CiteScore: 22.4, Scopus Quartile Ranking: Q1**
- A.63** D. Cholidis, N. Sifakis, A. Chachalis and G. Arampatzis. **Genetic-Algorithm-Based Smart Sizing of Hybrid Renewable Energy Systems for Stochastic High-Power Cold Ironing Loads**. *Energy Systems*, **2026**. *[under review]*  
**JCR IF: 1.9, Scopus CiteScore: 4.9, Scopus Quartile Ranking: Q2**
- A.62** G Tsinarakis, N. Sifakis, A. Chachalis, M. Aryblia, T. Kekes, and G. Arampatzis. **A Model-Driven Process Modelling and Simulation Framework for Digital Shadow Integration in Industrial Citrus Valorisation Processes**. *IEEE Access*, **2025**. *[under review]*  
**JCR IF: 3.6, Scopus CiteScore: 9.0, Scopus Quartile Ranking: Q1**
- A.61** N. Sifakis, D. Cholidis, A. Chachalis, N. Savvakis, A. Kartalidis, N. Matak, R. Brakic, G. Comodi, A.L. Eusebi and George Arampatzis. **Advancing Cold Ironing Through Digital-Shadow Modelling and Strategic Planning in Maritime Logistics**. *Transportation Research Part D: Transport and Environment*, **2025**. *[under review]*  
**JCR IF: 7.7, Scopus CiteScore: 14.2, Scopus Quartile Ranking: Q1**
- A.60** A. Martinez-Gutierrez, R. Ferrero-Guillen, G. Arampatzis, M. Araujo and J. Diez-Gonaaleza. **Mixed Reality: A new dimension for industrial digital training**. *International Journal of Human Computer Studies*, **2026**. *[under review]*  
**JCR IF: 5.3, Scopus CiteScore: 12.4, Scopus Quartile Ranking: Q1**

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**JCR IF: 1.8, Scopus CiteScore: 4.1, Scopus Quartile Ranking: Q1/Q2**

## 8.2 Scientific Conferences

- B.96** K. Pityanou, D. Papatsaroucha, E. Karkou, M. Aryblia, G. Arampatzis and E.K. Markakis. **Structuring Circular Economy Intelligence: Towards a Sovereign Knowledge Ecosystem for Circular Systemic Solutions**. 2<sup>nd</sup> International Conference on Digital Sovereignty (ICDS). Oslo, Norway, October 2025.
- B.95** N. Sifakis, D. Cholidis, A. Kartalidis and G. Arampatzis. **Machine Learning-Driven Digital Shadow for Forecasting Port Energy Demand: Application in the port of Ancona**. 20<sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES). Dubrovnik, Croatia, October 2025.
- B.94** N. Sifakis, D. Cholidis, A. Chachalis, G. Tsinarakis and G. Arampatzis. **Modeling Cold-Ironing Potential in High-Density Ferry Quays: a Virtual Assessment for the port of Ancona**. 20<sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES). Dubrovnik, Croatia, October 2025.
- B.93** N. Sifakis, A. Chachalis, D. Cholidis, E. Melic, S. Muratspahic and G. Arampatzis. **Designing a Modular Cold-Ironing Framework for Nearly Zero-Emission Port Operations in the Adriatic-Ionian Region**. 20<sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES). Dubrovnik, Croatia, October 2025.
- B.92** G. Arampatzis. **Boosting the transformation of cities and regions through circular, digital, and social innovations: The Circular Systemic Solution approach**. 2<sup>nd</sup> International Conference Circular Economy: The pathway towards a Sustainable Development. Chania, Greece, September 2025.
- B.91** G. Arampatzis. **Achieving the twin transition in industrial water use: Challenges and breakthroughs**. 19<sup>th</sup> International Conference on Environmental Science and Technology. Kos, Greece, September 2025.
- B.90** G. Livanos, L. Doitsidis, N. Tsourveloudis, M. Aryblia and G. Arampatzis. **Towards Circular Value Chains, Sustainable and Resilient Product Management and Production Scheduling Using Digital tools**. 4<sup>th</sup> International Conference on Responsible Consumption and Production, Chania, Greece, September 2025.
- B.89** E. Karkou and G. Arampatzis. **Industrial Urban Symbiosis Modelling for Closing the Water Loop**. 1st SUSTENS - Advances in Sustainable Engineering Systems, June 2025.
- B.88** K. Zapounidis, A. Bantsos, C. Koidis, I. Aptalidis, K. Papadopoulos, A.M. Despotopoulou, K. Christidis, B. Magoutas, E. Grillakis, G. Arampatzis, A. Phillis, S. Manoudakis, C. Pascale, A. Pacifico, C. Achillas, D. Aidonis and A. Voulgarakis. **Leveraging Mapping Tools and Analytics for Advanced Wildfire Detection and Crisis Management**. EGU General Assembly 2025. Vienna, Austria, April 2025.

- B.87** D. Vallim, S. Manoudakis, A. Schmid, A. Voulgarakis, E. Altsitsiadis, M. Grillakis, A. Giannakopoulou, A. Phillis, G. Arampatzis and I. Froes. **Stakeholder Engagement Drivers: Insights from an Information System Innovation Project Supporting Wildfire Evacuation in Greece**. 22<sup>nd</sup> International ISCRAM Conference, Managing and Responding to Coastal Disasters and Climate Change, Halifax, Canada, May **2025**.
- B.86** A. Martínez-Gutiérrez, J. Díez-González<sup>1</sup>, R. Ferrero Guillén, G. Arampatzis and M. Araújo. **Impact of the Metaverse on Humans: Physical Exertion and Perception Shifts**. 6<sup>th</sup> ICOPEV – International Conference on Production Economics and Project Evaluation, Guimarães, Portugal, November **2024**.
- B.85** A. Angelis-Dimakis, S. Earnshaw, P. Dedousis, M. Aryblia, A. Vyrkou and G. Arampatzis. **The AquaSPICE Symbiosis Enabling Platform**. LIAISE G1 Workshop September 2024. Brussels, Belgium, September **2024**.
- B.84** M. Glllakis, G. Arampatzis, A. Phillis, S. Manoudakis and A. Voulgarakis. **Advancing Wildfire Management in Mediterranean: The TREEADS (H2020) project**. 18<sup>th</sup> PLINIUS Conference on Mediterranean Risks. Chania, Crete, Greece, September **2024**.
- B.83** E. Karkou and G. Arampatzis. **Towards Sustainable Water Management Through Systemic Modelling**. 14<sup>th</sup> Hellenic Scientific Conference on Chemical Engineering. Thessaloniki, Greece, May **2024**.
- B.82** M. Aryblia, N. Sarantinoudis, N. Sifakis, G. Tsinarakis and G. Arampatzis. **Advancing Industry 4.0 by Enabling Sustainability and Circularity in Process Industrial Environments**. 14<sup>th</sup> Hellenic Scientific Conference on Chemical Engineering. Thessaloniki, Greece, May **2024**.
- B.81** N. Tsourveloudis, G. Arampatzis, L. Doitsidis, M. Aryblia, G. Livanos. **Manufacturing Resilience and Flexibility: Enablers for the industrial future**. The 32<sup>nd</sup> Mediterranean Conference on Control and Automation (MED2024). Chania, Crete, Greece, June **2024**.
- B.80** G. Arampatzis, N. Tsourveloudis, L. Doitsidis, M. Aryblia, G. Livanos. **Empowering Manufacturing Sustainability through Process Simulation Modelling, Integrated Digital Product Passports and Sustainability Balanced Scorecards**. The 32<sup>nd</sup> Mediterranean Conference on Control and Automation (MED2024). Chania, Crete, Greece, June **2024**.
- B.79** N. Sarantinoudis, N. Vitzilaios and G. Arampatzis. **Applications of Digital Twins in UAV**. International Conference on Unmanned Aircraft Systems (ICUAS). Chania, Crete, Greece, June **2024**.
- B78** N. Savvakis, N. Sifakis and G. Arampatzis. **Development and Techno-Economic Assessment of Multi-Energy Systems in Mediterranean Island Communities (Case Study: Platanos Kissamou, Crete)**. 13<sup>th</sup> National Conference for Renewable Energy Sources. Athens, Greece, May 2024. (in Greek)
- B.77** S. Manoudakis, C. kalaitzidis, A. Phillis and G. Arampatzis. **Predicting Post-Wildfire Soil Characteristics Using Remote Sensing and AI: A Case Study in Central Greece**. International Symposium on Applied Geoinformatics (ISAG-2022), Wroclaw, Poland, May **2024**.
- B.76** S. Manoudakis, V. Skevakis, P. Dedousis and G. Arampatzis. **Utilizing Remote Sensing and Artificial Intelligence for Effective Monitoring of Deforestation: A Case Study in the Attica Region, Greece**. International Symposium on Applied Geoinformatics (ISAG-2022), Wroclaw, Poland, May **2024**.
- B.75** E. Karkou, N. Savvakis and G. Arampatzis. **Digital Intelligent Services in Industrial Wastewater Treatment to Mitigate Climate Change**. International Symposium on Applied Geoinformatics (ISAG-2022), Wroclaw, Poland, May **2024**.

- B.74** N. Sifakis, E. Fakotakis, A. Siouras, S. Moustakidis and G. Arampatzis. **Advancing Livestock Management through ICT: Insights from the CHAMELEON Project in Greece**. International Symposium on Applied Geoinformatics (ISAG-2022), Wroclaw, Poland, May **2024**.
- B.73** M. Aryblia, N. Sarantinoudis, N. Sifakis, G. Tsinarakis and G. Arampatzis. **Enhancing Manufacturing Sustainability through Integrated Digital Product Passports and the Sustainability Balanced Scorecard**. International Symposium on Applied Geoinformatics (ISAG-2022), Wroclaw, Poland, May **2024**.
- B.72** N. Sifakis, G. Tsinarakis, M. Aryblia and G. Arampatzis. **Empowering Sustainable Manufacturing with Process Simulation Modelling Tool: A Leap Towards Circular Economy Integration**. International Symposium on Applied Geoinformatics (ISAG-2022), Wroclaw, Poland, May **2024**.
- B.71** M. Aryblia, N. Sarantinoudis, G. Tsinarakis and G. Arampatzis. **Advancing sustainability in industrial supply chains by embracing circular approaches & digital transformation**. International Conference of the International Ecological Engineering Society, Chania, Greece, October 1 – 5, **2023**.
- B.70** G. Arampatzis. **Sustainability of Process Industries through Digital and Circular Water Use Innovations – Experience from AquaSPICE project**. International Conference of the International Ecological Engineering Society, Chania, Greece, October 1 – 5, **2023**.
- B.69** J.M. Rozanec, B.Sircelj, M.K. Onat, N. Sarantinoudis, G. Arampatzis, B. Fortuna and D. Mladenec. **Machine-Learning-Based Soft Sensors for LPG Distillation Columns Quality Monitoring: Comparing Strategies for Zero-Inflated Data**. III. International Conference on Electrical, Computer and Energy Technologies (ICECET 2023), Cape Town-South Africa. November **2023**.
- B.68** G. Arampatzis. **AquaSPICE – Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovations**. 18<sup>th</sup> International Conference on Environmental Science and Technology. Athens, Greece. September **2023**.
- B.67** S. Earnshaw, P. Dedousis, A. Vyrkou, T. Pieri, G. Arampatzis and A. Angelis-Dimakis. **The AquaSPICE Industrial Symbiosis Enabling Platform**. 18<sup>th</sup> International Conference on Environmental Science and Technology. Athens, Greece. September **2023**.
- B.66** M. Aryblia, N. Sarantinoudis, G. Tsinarakis and G. Arampatzis. **Enabling sustainability and resilience in industries through the value chains’ circularity and digitalization**. 18<sup>th</sup> International Conference on Environmental Science and Technology. Athens, Greece. September **2023**.
- B.65** E. Karkou, N. Savvakis, M. Aryblia, A. Angelis-Dimakis and G. Arampatzis. **Modelling Closed-Water Loops in the Process Industries**. 18<sup>th</sup> International Conference on Environmental Science and Technology. Athens, Greece. September **2023**.
- B.64** G. Arampatzis. **Water management in process industries**. International Conference Leading and Managing in the Digital Era: Shaping the Future of Work and Business Education (LMDE 2023), Syros, Greece, June **2023**.
- B.63** G. Arampatzis. **AquaSPICE Project: The Projects’ Experience: Knowledge Exchange and Capacity Development**. Water Innovation and Circularity Conference (WICC), Athens, Greece, June **2023**.
- B.62** E. Karkou, N. Savvakis and G. Arampatzis. **The impact of innovative fit-for-purpose modelling on the industrial wastewater treatment: Application to case studies**. Water Innovation and Circularity Conference (WICC), Athens, Greece, June **2023**.

- B.61** N. Sarantinoudis, G. Tsinarakis, L. Doitsidis, S. Chatzichristofis and G. Arampatzis. **A ROS-based Autonomous Vehicle testbed for the Internet of Vehicles**. 2023 International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSS-IoT), Coral Bay, Pafos, Cyprus, **2023**.
- B.60** N. Sarantinoudis, G. Tsinarakis, G. Arampatzis, E. Doitsidis and N. Tsurveloudis. **Bibliometric Analysis on Applications of Digital Twins in Autonomous Vehicles**. The 31<sup>st</sup> Mediterranean Conference on Control and Automation (MED2023), Limasol, Cyprus, June **2023**.
- B.59** N. Sarantinoudis, G. Arampatzis, K.P. Valavanis and N. Tsurveloudis. **Unmanned Aerial Vehicles and Livestock Management: an application in Western Crete**. International Conference on Unmanned Aircraft Systems, ICUAS 2023, Warsaw, Poland, June **2023**.
- B.58** K. Kalaboukas and G. Arampatzis. **Cognitive Digital Twins for Optimized Manufacturing Operations**. IoT Week, Dublin, June **2022**.
- B.57** K. Kalaboukas and G. Arampatzis. **Process Industry Digital Transformation Using Cognitive Digital Twins**. European Big Data Value Forum, Prague, November **2022**.
- B.56** M. Aryblia, G. Arampatzis, P. Velanas, K. Margariti and C. Kalaitzidis. **A holistic scheme to sustainable and digital agriculture, forestry, livestock, and rural development utilizing reconfigurable aerial enablers - The approach of Horizon Europe CHAMELEON Project**. International Symposium on Applied Geoinformatics (ISAG-2022), Chania, Crete, Greece, Oct **2022**.
- B.55** A. Philis, S. Manoudakis, V. Kouloumpis, G. Arampatzis, P. Velanas and K. Margariti. **Applying geoinformatics in a Holistic Fire Management Ecosystem for Prevention, Detection and Restoration of Environmental Disasters in the TREEADS project**. International Symposium on Applied Geoinformatics (ISAG-2022), Chania, Crete, Greece, Oct **2022**.
- B.54** G. Arampatzis. **Experience from Successful Innovation Projects**. International Symposium on Applied Geoinformatics (ISAG-2022), Chania, Crete, Greece, Oct **2022**.
- B.53** S. Manoudakis, C. Kalaitzidis, G. Arampatzis, Dimitrios and D. Alexakis. **Assessing post-fire soil properties using Machine Learning on satellite remote sensing data**. International Symposium on Applied Geoinformatics (ISAG-2022), Chania, Crete, Greece, Oct **2022**.
- B.52** E. Karkou, N. Savvakis and G. Arampatzis. **Critical insights to drive sustainable water management**. 1<sup>st</sup> International Conference on Sustainable Chemical and Environmental Engineering, Rethymno, Crete, Greece, Aug-Sep **2022**.
- B.51** J.M. Rozanec, E. Trajkova, M.K. Onat, N. Sarantinoudis and G. Arampatzis, B. Fortuna and D. Mladenic. **Machine-Learning-Based Soft Sensors for Energy Efficient Operation of Crude Distillation Units**. International Conference on Electrical, Computer and Energy Technologies (ICECET 2022), Prague-Czech Republic. July **2022**.
- B.50** A. Corchero Rodriguez, H. Arpke, S. Munaretto, L. Vamvakeridou-Lyroudia, C. Makropoulos, G. Arampatzis, H. Schwarzmüller and A. Marioni. **A resilient knowledge booster for elaborating adaptation and mitigation measures to minimize the effects of climate change**. 3<sup>rd</sup> International Symposium Climate Change & Water 2022. Tours, France. May-June **2022**.
- B.49** A. Marinoni, A Corchero Rodriguez, H. Arpke, S. Munaretto, L. Vamvakeridou-Lyroudia, C. Makropoulos, G. Arampatzis, H. Schwarzmüller and C. Jaeger. **Leveraging the power of remote sensing for the implementation of climate change adaptation and mitigation in Europe**. European Space Agency's 2022 Living Planet Symposium. Bonn, Germany. May **2022**.
- B.48** I. Bouhamed, C. Kalaitzidis, I. Gitas, and G. Arampatzis. **Mapping abandoned olive groves using Landsat/Sentinel2 imagery and Google Earth Engine**. International Symposium on Applied Geoinformatics (ISAG2021). Riga, Latvia, Dec **2021**.

- B.47** N. Sarantinoudis, G. Tsinarakis, K. Kalaboukas, P. Eirinakis and G. Arampatzis. **Cognitive Manufacturing: The role of process modelling and optimisation**. 31<sup>st</sup> European Conference on Operational Research. Athens, Greece. July **2021**.
- B.46** G. Arampatzis, P. Eirinakis, A. Košmerlj, J. Rožanec and N. Sarantinoudis. **Utilizing an enhanced digital twin to optimize on-specs LPG recovery**. 31<sup>st</sup> European Conference on Operational Research. Athens, Greece. July **2021**.
- B.45** A. Soukouli, A. Kalogerakis, A. Angelis-Dimakis and G. Arampatzis. **Energy Renovation of Conference Center Towards Nearly Zero-Energy Building in Accordance with the Standards of the European Green Deal**. 17<sup>th</sup> International Conference on Environmental Science and Technology, Athens, Greece. September 2021.
- B.44** C. Dima, Angelis-Dimakis and G. Arampatzis. **Industrial symbiosis: A methodology for the development and evaluation of symbiotic actions for CO2 capture and utilization**. 17<sup>th</sup> International Conference on Environmental Science and Technology. Athens, Greece. September **2021**.
- B.43** V. Angelis, G. Arampatzis, A. Alexopoulos and A. Angelis-Dimakis. **Solid Waste Reuse in the Balkan-Mediterranean Region**. 17<sup>th</sup> International Conference on Environmental Science and Technology. Athens, Greece. September **2021**.
- B.42** A. Angelis-Dimakis, T. Pieri, I. Nicacio, G. Arampatzis, P. Dedousis, ZB. Liew, CY. SIM and S. Yusup. **Carbon Capture Utilization Potential in Malaysia**. 17<sup>th</sup> International Conference on Environmental Science and Technology. Athens, Greece. September **2021**.
- B.41** P. Dedousis, G. Stergiopoulos, G. Arampatzis and D. Gritzalis. **Towards integrating security-by-design in industrial engineering practices**. 18<sup>th</sup> International Conference on Security and Cryptography. Lieusaint - Paris, France. July **2021**.
- B.40** G.J. Tsinarakis, P.S. Spanoudakis, G. Arampatzis, N.C. Tsourveloudis and L. Doitsidis. **Implementation of a Petri-net based Digital Twin for the development procedure of an Electric Vehicle**. 28<sup>th</sup> Mediterranean Conference on Control and Automation (MED 2020). Saint-Raphaël, France. June **2020**.
- B.39** A. Angelis-Dimakis, G. Arampatzis, P. Dedousis and G. Apostolopoulos. **SWAN Platform - A web-based tool to support the development of industrial solid waste reuse business models**. 16<sup>th</sup> International Conference on Environmental Science and Technology. Rhodes, Greece. September **2019**.
- B.38** K. Solomou., G. Arampatzis, P. Dedousis, A. Angelis-Dimakis. **A database of existing solid industrial waste reuse schemes as the basis for an industry matching algorithm**. 16<sup>th</sup> International Conference on Environmental Science and Technology. Rhodes, Greece. September **2019**.
- B.37** A. Kavga, M. Souliotis, G. Arampatzis and S. Papaefthimiou. **Intelligent Greenhouses to Reduce Environmental Imprint**. XXXVIII CIOSTA & CIGR V International Conference, Sustainable Decisions in Bio-Economy. Rhodes, Greece. June **2019**.
- B.36** E. Gerampinis, F. Kalafati, G. Arampatzis and N. Matsatsinis. **Development of Decision Support System in Energy**. 8<sup>th</sup> International Symposium and 30<sup>th</sup> National Conference on Operational Research, OR in public and private services. Patras, Greece. May **2019**.
- B.35** T. Pieri, A. Nikitas, G. Arampatzis and A. Angelis-Dimakis. **A methodological framework for the holistic assessment of carbon capture and utilization value chains**. 5<sup>th</sup> International Symposium on Green Chemistry, Sustainable Development and Circular Economy. Skiathos, Greece. October **2018**.

- B.34** D.S. Tsoukeris, I. Nydrioti, P.-M. Stathatou, P. Dedousis, G. Arampatzis and D. Assimacopoulos. **Environmental Impact Assessment of Combined Natural & Engineered Systems for Wastewater Treatment & Reuse: The Case Of Antiparos WWTP**. 6<sup>th</sup> International Conference on Industrial and Hazardous Waste Management. Chania, Crete, Greece. September **2018**.
- B.33** G. Arampatzis, P.-M. Stathatou, P. Scaloubakas and D. Assimacopoulos. **A User-Oriented Approach to Provide Online Decision Support Services: The AquaNES DSS Experience**. 7<sup>th</sup> International Symposium & 29<sup>th</sup> National Conference on Operational Research. Chania, Crete, Greece. June **2018**.
- B.32** G. Arampatzis, A. Kartalidis, S. Papaefthimiou and D. Assimacopoulos. **A Decision Support System for Design, Assessment and Evaluation of Integrated Water and Energy Production Systems**. 3<sup>rd</sup> HAEE Conference: Energy Transition: European and Global Perspectives, Athens, Greece, May **2018**.
- B.31** P.M. Stathatou, P. Dedousis, G. Arampatzis, H. Grigoropoulou and D. Assimacopoulos. **Energy Savings & Reduced Emissions in Combined Natural & Engineered Systems for Wastewater Treatment & Reuse: The WWTP of Antiparos Island, Greece**. 6<sup>th</sup> International Conference on Sustainable Solid Waste Management, Naxos Island, Greece, June **2018**.
- B.30** P.M. Stathatou, G. Arampatzis, E. Christoffels and D. Assimacopoulos. **Decision Support System for the implementation of Combined Natural and Engineered Water Treatment Systems: The Case of Retention Soil Filters**. 16<sup>th</sup> International Conference of the IWA Specialist Group on Wetland Systems for Water Pollution Control, Valencia, September **2018**.
- B.29** G. Arampatzis, E. Kampragou, P. Scaloubakas, and D. Assimacopoulos. **Balancing water supply and demand under different demand management options: a water system perspective**. 36<sup>th</sup> IAHR World Congress, The Hague, The Netherlands, June-July **2015**.
- B.28** A. Georgopoulou, A. Angelis-Dimakis, G. Arampatzis and D. Assimacopoulos. **Assessing and improving the eco-efficiency of a bottling plant using a systemic approach**. CEMEPE/SECOTOX 2015 Conference, Myconos, Greece, July **2015**.
- B.27** G. Arampatzis, E. Kampragou, N. Perdikeas, P. Scaloubakas, and D. Assimacopoulos. **A system-based approach for the assessment of water demand management instruments**. IWA Waterideas 2014 Conference, Bologna, Italy, October **2014**.
- B.26** A. Angelis-Dimakis, G. Arampatzis and D. Assimacopoulos. **Systemic eco-efficiency assessment in water use systems**. 17<sup>th</sup> European Roundtable on Sustainable Consumption and Production, Portoroz, Slovenia, October **2014**.
- B.25** G. Arampatzis, A. Angelis-Dimakis, M. Blind and D. Assimacopoulos. **An online suite of tools to support the systemic eco-efficiency assessment in water use systems**. 17<sup>th</sup> European Roundtable on Sustainable Consumption and Production, Portoroz, Slovenia, October **2014**.
- B.24** G. Arampatzis, N. Perdikeas, E. Kampragou, P. Scaloubakas and D. Assimacopoulos. **A water demand forecasting methodology for supporting day-to-day management of water distribution systems**. 12<sup>th</sup> International Conference "Protection & Restoration of the Environment", Skiathos, Greece, June **2014**.
- B.23** A. Georgopoulou, A. Angelis-Dimakis, G. Arampatzis and D. Assimacopoulos. **Eco-efficiency assessment in the agricultural sector: The case of fresh form tomato crop in Phthiotida**. 12<sup>th</sup> International Conference "Protection & Restoration of the Environment", Skiathos, Greece, June **2014**.
- B.22** C. Xiouras, A. Angelis-Dimakis, G. Arampatzis and D. Assimacopoulos. **Environmental and energy assessment of new vehicle technologies in the greater Athens area**. 12<sup>th</sup> International Conference on Environmental Science and Technology, Rhodes, Greece, September **2011**.

- B.21** A. Kartalidis, M. Georgopoulou, G. Arampatzis and D. Assimacopoulos. **Desalination in Greek island by using RES**. 12<sup>th</sup> International Conference on Environmental Science and Technology, Rhodes, Greece, September **2011**.
- B.20** G. Arampatzis, A. Panagiotakis, E. Kampragou, E. Manoli and D. Assimacopoulos. **A GIS-based tool for assessing climate change impacts on tourism**, 12<sup>th</sup> International Conference on Environmental Science and Technology, Rhodes, Greece, September **2011**
- B.19** I. Michalopoulos, A. Angelis-Dimakis, G. Arampatzis and D. Assimacopoulos. **Evaluation of energy saving measures in the residential sector**. 8<sup>th</sup> Hellenic Scientific Conference on Chemical Engineering, Thessaloniki, Greece, May **2011**. (in Greek)
- B.18** A. Kartalidis, G. Arampatzis and D. Assimacopoulos. **A decision support system for design and assessment of hybrid systems for cogeneration of electricity and water**. 22<sup>nd</sup> European Modeling & Simulation Symposium, Fes, Morocco, October 2010.
- B.17** A. Angelis-Dimakis and G. Arampatzis. **Energy indicators for sustainable development**. 24<sup>th</sup> European Conference on Operational Research, Lisbon, Portugal, July **2010**.
- B.16** A. Angelis-Dimakis, G. Arampatzis and D. Assimacopoulos. **Cost-effectiveness analysis for the exploitation of renewable energy sources in isolated systems under uncertainty**. 9<sup>th</sup> National Conference on Soft Energy Sources, Paphos, Cyprus, March **2009**. (in Greek)
- B.15** A. Kartalidis, G. Arampatzis and D. Assimacopoulos. **Rapid sizing of renewable energy power components in hybrid power plants for reverse osmosis desalination process**. International Congress on Environmental Software and Modeling, Barcelona, Spain, July **2008**.
- B.14** A. Angelis-Dimakis, P. Trogadas, G. Arampatzis and D. Assimacopoulos. **Cost effectiveness analysis for renewable energy sources integration in the island of Lemnos, Greece**. International Congress on Environmental Software and Modeling, Barcelona, Spain, July **2008**.
- B.13** I. Sofronis, G. Arampatzis, D. Assimacopoulos and Th. Oikonomou. **Promot: A decision support tool for the promotion of energy efficient motor systems**. 4<sup>th</sup> International Conference on Energy Efficiency in Motor Driven Systems (EEMODS), Heidelberg, Germany, September **2005**.
- B.12** E. Manoli, P. Katsiardi, G. Arampatzis and D. Assimacopoulos. **Comprehensive water management scenarios for strategic planning**. 9<sup>th</sup> International Conference on Environmental Science and Technology, Rhodes, Greece, September **2005**.
- B.11** D. Voivontas, E. Manoli, G. Arampatzis and D. Assimacopoulos. **Water management in small islands: an optimization model for Paros**. HYDROTOP 2003, Marseille, France, October **2003**.
- B.10** D. Voivontas, G. Arampatzis, E. Manoli, C. Karavitis and D. Assimacopoulos. **Water supply modeling towards sustainable environmental management in small islands: the case of Paros**. European Conference on Desalination and the Environment: Fresh Water for All, Malta, May **2003**.
- B.9** E. Manoli, G. Arampatzis, E. Pissias and D. Assimacopoulos. **A spatial decision support system for the evaluation of water demand and supply management schemes**. 3<sup>rd</sup> International Forum on Integrated Water Management "Hydrorama 2002", Athens, Greece, March **2002**.
- B.8** G. Goulas, G. Arampatzis, C.T. Kiranoudis, P. Scaloubacas and D. Assimacopoulos. **Evaluation of transport policies in Athens**. 7<sup>th</sup> International Conference on Environmental Science and Technology, Syros, Greece, September **2001**.
- B.7** J. Michalopoulos, S. Papadokostantakis, G. Arampatzis and A. Lygeros. **Comparison of neural networks and statistical models in the modelling of the fluid catalytic cracking process**. 3<sup>rd</sup> National Conference of Chemical Engineering. Athens, Greece, June **2001**. (in Greek)
- B.6** J. Michalopoulos, S. Papadokostantakis, G. Arampatzis and A. Lygeros. **Modeling and optimization of an FCC unit using neural networks**. 3<sup>rd</sup> National Conference of Chemical Engineering, Athens, Greece, June **2001**. (in Greek)

- B.5** G. Arampatzis, C.T. Kiranoudis, P. Scaloubacas and D. Assimacopoulos. **A GIS-based decision support system for planning urban transportation policies**. 13<sup>th</sup> National Conference of Hellenic Operational Research Society “Transport & New Technologies”, Pireaus, Greece, December **2000**.
- B.4** K. Missirlis, E. Manoli, G. Arampatzis and D. Assimacopoulos. **The design of a desalination plant powered by renewable energies**. 5<sup>th</sup> International Water Technology Conference, Alexandria, Egypt, March **2000**.
- B.3** G. Arampatzis and D. Assimacopoulos. **Numerical modeling of convection-diffusion phase change problems**. 2<sup>nd</sup> National Congress of Computational Mechanics, Chania, Greece, June **1996**.
- B.2** D. Papadopoulos, G. Arampatzis and D. Assimacopoulos. **Air quality predictions under conditions of variable wind and diffusivity profiles**. 4<sup>th</sup> Conference on Environmental Science and Technology, Mitilini, Greece, September **1995**. (in Greek)
- B.1** G. Arampatzis, P. Dimitriou and D. Assimacopoulos. **Treatment of numerical diffusion in atmospheric diffusion problems**. 2<sup>nd</sup> Conference on Environmental Science and Technology, Mitilini, Greece, September **1991**. (in Greek).

### 8.3 Educational Books

- C.6** D. Assimacopoulos, G. Arampatzis, A. Agelis-Dimakis, A. Kartalidis and G. Tsiligiridis. **Renewable Energy Sources – Potential and Technologies**. Sofia, Thessaloniki, Greece, **2<sup>nd</sup> Edition 2023, B’ Edition 2023**. ISBN: 978-960-633-044-5. (in Greek)
- C.5** G. Arampatzis, D. Assimacopoulos and V. Lygerou. **Heat and Mass Transfer**. Tziolas, Greece, **2020**. ISBN: 978-960-418-840-6. (in Greek)
- C.4** D. Assimacopoulos, V. Lygerou and G. Arampatzis. **Heat and Mass Transfer**. Papatotiriou, Athens, Greece, **2012**. ISBN: 978-960-491-064-9. (in Greek)
- C.3** D. Assimacopoulos, V. Lygerou and G. Arampatzis. **Heat Transfer**. Papatotiriou, Athens, Greece, **2009**. ISBN: 978-960-7182-57-9. (in Greek)
- C.2** V. Lygerou, D. Assimacopoulos and G. Arampatzis. **Mass Transfer**. Papatotiriou, Athens, Greece, **2005**. ISBN 960-7530-66-7. (in Greek)
- C.1** D. Assimacopoulos and G. Arampatzis. **Data Analysis and Decision Making Methods**. Papatotiriou, Athens, Greece, **2002**. ISBN: 960-7530-25-X. (in Greek)

### 8.4 Chapters in Edited Books

- D.5** J. M. Rožanec, P. Eirinakis, G. Arampatzis, N. Stojanović, K. Kalaboukas, J. Lu, X.Zheng and D. Kiritsis. **Cognitive Digital Twins in the Process Industries**. Chapter in “**Handbook of Digital Twins**”, Edited by Z. Lyu, **2024**. ISBN: 9781032546070. [DOI: 10.1201/9781003425724](https://doi.org/10.1201/9781003425724)
- D.4** A. Angelis-Dimakis, V. Kouloumpis, A. Vyrkou and G. Arampatzis. **A Review of Water Related LCA Indicators**. Chapter in “**Elgar Encyclopedia of Water Policy, Economics and Management**”, Edited by P. Koundouri, Edward Elgar Publishing, **2024**. ISBN: 978 1 80220 2939. [DOI: 10.4337/9781802202946](https://doi.org/10.4337/9781802202946)
- D.3** I. Poulis and G. Arampatzis. **Developmental and Energy Infrastructures in Proximity to Historic Environments: The Investor, and the State**. Chapter in book “**Culture and Perspective at Times of Crisis**”, Edited by S. Antoniadou, G. Vavouranakis, I. Poulis and P. Raouzaoui, Oxbow Books, **2018**. [ISBN: 9781785708596](https://doi.org/10.1017/9781785708596)

- D.2** G. Arampatzis, A. Kartalidis and D. Assimacopoulos. **Responding to Water Challenges Through Desalination: Energy Considerations**. Chapter in Book “**Desalination**”, Edited by T. Yonar, Intech, **2017**. ISBN: 978-953-51-3364-3, [DOI: 10.5772/65209](https://doi.org/10.5772/65209)
- D.1** G. Poullos and G. Arampatzis. **Developmental Energy Projects, Cultural Environment, Local Society and Sustainable Development**. Chapter in book “**Cultural Management, Local Society and Sustainable Development**”, Edited by G. Poullos, M. Alivizatou, G. Arampatzis, A. Giannakidis, N.G. Karachalis, E. Mascha, M. Mouliou, M. Papadaki, X. Prosilis and S. Touloupa. Hellenic Academic Ebooks, Athens, **2015**. ISBN: 978-960-603-444-2. Electronic book available at <http://hdl.handle.net/11419/2394> (in Greek)

## 8.5 Theses

- E.2** G. Arampatzis. **Simulation of Transport Phenomena in Solidification Processes**. PhD Thesis, National Technical University of Athens, School of Chemical Engineering, **2000**. (in Greek)
- E.1** G. Arampatzis. **Numerical Diffusion in Atmospheric Pollution Problems. Diploma Thesis, National Technical University of Athens, School of Chemical Engineering, 1991**. (in Greek)

## 8.6 Educational Material

- F.6** G. Arampatzis. **Heat Transfer Notes**. Technical University of Crete, Chania, **2018-2025**. (in Greek)
- F.5** G. Arampatzis. **Fluid Mechanics Notes**. Technical University of Crete, Chania, **2019-2025**. (in Greek)
- F.4** D. Assimacopoulos, G. Arampatzis, A. Angelis-Dimakis and A. Kartalidis. **Rational and Sustainable Energy Management**. National Technical University of Athens, Athens, Greece, **2009-2016**. (in Greek)
- F.3** D. Assimacopoulos and G. Arampatzis. **Energy Analysis of Industrial Systems**. National Technical University of Athens, Athens, Greece, **2002-2008**. (in Greek)
- F.2** D. Assimacopoulos and G. Arampatzis. **Computational Laboratory in Rational and Sustainable Energy Management (electronic form)**. National Technical University of Athens, Athens, Greece, **2002–2016**. (in Greek)
- F.1** D. Assimacopoulos and G. Arampatzis. **Computational Laboratory in Heat and Mass Transfer (electronic form)**. National Technical University of Athens, Athens, Greece, **2000–2016**. (in Greek)

## 8.7 Presentations in Scientific Events/Workshops

- G.24** G. Arampatzis. **The Circular Systemic Solution as a Roadmap for Regional Transformation. The CSSBoost experience**. 2025 LIAISE COST WG3 Workshop, Piraeus, Greece, May **2026**.
- G.23** G. Arampatzis. **Social Innovation for and acceptance of circular systemic solutions**. EU Green Week 2025, online event, June **2025**.
- G.22** G. Arampatzis. **From demonstration to deployment of circular solutions: First lessons learnt from CCRI pilot cases**. CCRI Workshop. Online event, January **2025**.
- G.21** F. Fatone, and G. Arampatzis. **Materializing circular water use, fostering awareness in resource efficiency, and delivering innovative solutions for a Water-Smart Society**. Ecomondo the Green Technology Expo. Rimini, Italy. November **2024**.

- G.20** F. Fatone, A. Cherubini and G. Arampatzis. **Boosting Circular Systemic Solutions through Virtual Regional Circular Economy Space: Project Overview and Water Reuse & Nutrient Recovery CSS**. AquaSPICE Info-Day Event, Chania, Greece, July **2024**.
- G.19** G. Arampatzis. **AquaSPICE – Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovation**. Knowledge Exchange Event. Organized by Water Reuse Europe. Brussels, Belgium, October **2023**.
- G.18** Γ. Αραμπατζής. **Προκλήσεις και προοπτικές για την Κυκλική Οικονομία στο πλαίσιο της Διττής Πράσινης & Ψηφιακή Μετάβασης**. Ημερίδα «Η κυκλική οικονομία σε περιοχές δίκαιης μετάβασης». Οργάνωση Πολυτεχνείο Κρήτης, Χανιά, Οκτώβριος **2023**.
- G.17** G. Arampatzis **Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovation – focus on Terneuzen and Rosignano petrochemical areas**. WATER PROJECTS EUROPE @ ECOMONDO: clusters, synergies and interface with market players and problem owners Event. Ecomondo the Green Technology Expo. Rimini, Italy. November **2023**.
- G.16** G. Arampatzis. **Challenges and Opportunities to the Green & Digital Transition and Adaptation to the Climate Crisis – European Strategies and Research Activities**. Advancing Utterly Green Environments, Event organized by Orthodox Academy of Crete, March **2023**.
- G.15** G. Arampatzis. **Innovation Alliance for Circular Economy in Crete and Mediterranean**. 1<sup>st</sup> Event of “In-Crete” Alliance “: Strengthening the Circular Economy in Crete and the Mediterranean”, Chania, Crete, December **2022**.
- G.14** G. Arampatzis. **Digital Twin and Cyber-Physical Framework in Water Smart Industries in H2020 AquaSPICE**. Digitalization and cyber-physical systems for water-smart cities and industries: demos and showcase Event. Ecomondo the Green Technology Expo. Rimini Italy. November **2022**.
- G.13** G. Arampatzis. **Process Modelling and Simulation for Industrial Cognitive Digital Twins**. Hybrid Workshop “Twin Digital and Green Transition” to a Resilient Economy, Chania, Crete, June **2022**.
- G.12** G. Arampatzis. **Digital Technologies and the Digital Industry: Home Research Perspectives and Success Stories**. Online event “Horizon Europe: Opportunities for the Future of Smart Industry & Digital Technologies”, Organized by National Documentation Center, March **2022**. (in Greek)
- G.11** G. Arampatzis. **Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovations**. Clustering event on preserving water- Integrated water-smart strategies for industrial processes. Organized by Water Europe, December **2021**.
- G.10** G. Arampatzis. **Challenges and Prospects for Energy Transition and Adaptation to Climate Change**. Energy Day in the context of the European Sustainable Energy Week. Organized by Hellenic Mediterranean University, Herecleion, October **2021**. (in Greek)
- G.9** G. Arampatzis. **Digital Water and Energy Management Services in Municipal Utilities**. Networking Event in European Trend and Good practices. Organized by EuroConnect, Athens, December **2019**. (in Greek)
- G.8** D. Assimacopoulos, A. Kartalidis and G. Arampatzis. **RES-powered desalination in arid islands**. Conference on “Renewable Energy Sources and Desalination Technologies: Technical Advancements – Legal Framework – Funding”, Organized by the Centre for Renewable Energy Sources and Saving (CRES), Athens, Greece, September **2010**. (in Greek)

- G.7** G. Arampatzis, A. Kartalidis and D. Assimacopoulos. **Design, Assessment and Optimization of Hybrid Systems for Cogeneration of Electricity and Water using Desalination**. Conference on “Renewable Energy Sources and Desalination Technologies: Technical Advancements – Legal Framework – Funding”, Organized by the Centre for Renewable Energy Sources and Saving (CRESES), Athens, Greece, September **2010**. (in Greek)
- G.6** G. Arampatzis, A. Angelis-Dimakis and D. Assimacopoulos. **A web based decision support system for selecting energy efficient heat pumps**. Conference on “Improving energy efficiency of industrial motor systems”, Organized by the Centre for Renewable Energy Sources and Saving (CRESES), Athens, Greece, January **2007**. (in Greek)
- G.5** G. Arampatzis, A. Angelis-Dimakis and D. Assimacopoulos. **A web based decision support system for selecting energy efficient heat pumps**. Conference on “Energy efficient motor systems”, Organized by the Centre for Renewable Energy Sources and Saving (CRESES), Athens, Greece, February 2006. (in Greek)
- G.4** G. Arampatzis, A. Koutsantoni and D. Assimacopoulos. **HEATCO Case Studies: Skarfia, Greece**. Conference on Harmonised European Approaches for Transport Costing and Project Assessment, Brussels, Belgium, May **2006**.
- G.3** G. Goulas, G. Arampatzis and D. Assimacopoulos. **Urban Transport Policies Evaluation**. Conference for the Automobile, Environment and Economy. Athens, Greece, April **2002**.
- G.2** G. Arampatzis, N. Diakoulakis, N. Lavdaki, P. Mountzouris and C. Smirnis. **Management of development projects and programs**. 11<sup>th</sup> National Conference of Hellenic Operational Research Society, Athens, June **1997**. (in Greek)
- G.1** G. Arampatzis, N. Diakoulakis and M. Kaliorakis. **Digital support of general Shut-Down of Hellenic Refineries of Aspropyrgos**. Conference of Primavera users, Athens, November **1996**. (in Greek)

## 9 EDITORIAL AND CONFERENCE/WORKSHOP ORGANIZATION ACTIVITIES

### 9.3 Organization of International Conferences

- 2026** **5<sup>th</sup> International Symposium of Applied Geoinformatics** (ISAG2026), Ostrava, Ostrava. *Jointly organized by Yildiz Technical University/Turkey, Wrocław University of Technology/Poland and Technical University of Crete/Greece..*
- 2024** **International Symposium of Applied Geoinformatics** (ISAG2024), Wrocław, Poland. *Jointly organized by Yildiz Technical University/Turkey, Wrocław University of Technology/Poland and Technical University of Crete/Greece.*

### 9.1 Editorial Board and Guest Editor in Scientific Journals

- Frontiers in Energy Research: Smart Grids - Research Topic on “**AI-Driven Digital Energy Management and Hybrid Microgrids for Smart Port Energy Systems**” **2026**
- Applied Sciences – Special Issue on “**Digital Twins: Technologies and Applications**” **2025**
- Energies-Special Issue on “**Renewable Energy and Nearly-Zero Emissions Energy Systems**” **2025**
- Photogrammetric Engineering and Remote Sensing – Special Issue on “**Innovative Methods for Geospatial Data using Remote Sensing and GIS**” **2023**
- Resources – Special Issue on “**Recovery of Metals from Alternative and Urban Ores**” **2020**.
- Sustainability – Special Issue on “**Sustainable Industrial Ecology**” **2020**

## 9.2 Keynote Speaker in Scientific Conferences

- 19<sup>th</sup> International Conference on Environmental Science & Technology, CEST 2025, Rhodes, Greece, **2025**.
- 2<sup>nd</sup> International Conference Circular Economy: The pathway towards a Sustainable Development, Chania, Greece, **2025**.

## 9.4 Organization of Scientific Workshops

- 2025 Towards Circular Solutions for Textile Waste Management**  
Special Workshop in the CRETE 2025 conference, Chania, Greece.
- 2025 Circular Systemic Solutions in Action: Transforming Crete into a Circular Region**  
Special Workshop in the CRETE 2025 conference, Chania, Greece.
- 2025 Innovative Pathways to Nearly Zero-Energy Ports: Advancing Sustainability and Smart Mobility in Maritime Systems**  
Special Workshop in the 20<sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), Dubrovnik, Croatia.
- 2022 Twin Digital and Green Transition to a Resilient Economy**, Hybrid Workshop, Chania, Greece. *Organized by the Industrial and Digital Innovations Research Group of Technical University of Crete.*

## 9.5 Member of Conference Scientific Committees

- 2025 19<sup>th</sup> International Conference on Environmental Science & Technology**, CEST 2025, Rhodes, Greece.
- 2025 2<sup>nd</sup> International Conference Circular Economy: The pathway towards a Sustainable Development**, Chania, Greece.
- 2024 International Conference on Unmanned Aircraft Systems**, ICUAS 2023, Chania, Greece.
- 2021 13<sup>th</sup> National Conference on Renewable Energy**, Athens, Greece.
- 2023 18<sup>th</sup> International Conference on Environmental Science & Technology**, CEST 2023, Athens, Greece.
- 2023 International Conference “Closed cycles and the Circular Society 2023: The power of ecological engineering”** of the International Ecological Engineering Society (IEES), Chania, Greece.
- 2022 International Symposium of Applied Geoinformatics (ISAG2022)**, Chania, Greece.
- 2022 3<sup>rd</sup> Symposium on Circular Economy and Sustainability**, Chania, Greece.
- 2021 17<sup>th</sup> International Conference on Environmental Science & Technology**, CEST 2021, Athens, Greece.
- 2021 12<sup>th</sup> National Conference on Renewable Energy**, Thessaloniki, Greece.
- 2019 16<sup>th</sup> International Conference on Environmental Science & Technology**, CEST2019, Rhodes, Greece.
- 2019 4<sup>th</sup> HAEE Annual Symposium - International Event**, Athens, Greece.
- 2018 3<sup>rd</sup> HAEE Annual Conf.: Energy Transition: European and Global Perspectives**, Athens, Greece.

## 9.6 Competition Jury Member

- 2025 **Region of Crete** – Innovation Hackathon “Artemis Saitakis»
- 2025 **EUSAIR POPRI** – 5<sup>th</sup> Youth Business Ideas Competition
- 2024 **Region of Crete** – Innovative Entrepreneurship Awards
- 2018-Σήμερα **BEST Chania** – Engineering Competition

## 10 PARTICIPATION IN STUDIES AND CONSULTING SERVICES

- 2020 Study of pollutants transfer and diffusion in steel industry using Computational Fluid Dynamics. **TUC**
- 2004-2005 Environmental management and protection of agricultural and animal husbandry areas of the Pamvotida lake region (Ministry of Agriculture). **NTUA.**
- 2003-2005 Development of a Master Plan for the reduction of air pollution in the Greater Athens area (Ministry of Environment). **NTUA.**
- 2001 Upgrading the Geographical Information System in use by OASA (Athens Urban Transport Organisation). **NTUA.**
- 1997-1998 Assessment Consultant of European Programme LEADER II. **SPEED.**
- 1997-1998 Management Consultant of Programme PAFOS. Services. **SPEED.**
- 1995 Computerized project management services during the master shut-down of Hellenic Refineries of Aspropyrgos. **SPEED.**
- 1995-1998 Management Consultant of Operational Programme for Northern Aegean (PEP) North Aegean. **SPEED.**
- 1992-1993 Project management services for the construction of district heating plant in Kozani. **SPEED.**
- 1992-1993 Development of an expert system for the industrial water management (MOPPIT). **SPEED.**