

1. PERSONAL DATA

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STUDIES

1997 Diploma in Electrical Engineering (Aristotle University of Thessaloniki)
2002 PhD in Electrical and Computer Engineering (Aristotle University of Thessaloniki)

3. PARTICIPATION IN FUNDED PROJECTS

Coordinator (indicative)

1. *Generalization of the topologically consistent conformal finite-difference time- domain method for fully three-dimensional non-orthogonal interfaces*, Budget: 7200 €, (Scholarship for post-doctoral research/I.K.Y. – Contract No: 501/2005), **2005**
2. *Complete Simulating Analysis and Study of Electromagnetic Compatibility of Conventional and Hybrid Vehicles' Electronic Control Units*, Budget: 4000 € (Programs of Research Enforcement 2008/Special Account of Funds and Research/A.T.E.I.Th.), **04/2009–09/2010**
3. *Powering the Future with Zero Emission and Human Powered Vehicles* (Erasmus LLP Intensive Programme/IKY)
09/2010–08/2011, Inscr. No.: 2010-1-GR1-ERA10-04393, Budget: 60701 €
09/2011–08/2012, Inscr. No.: 2011-1-GR1-ERA10-06828, Budget: 60189 €
09/2012–08/2013, Inscr. No.: 2012-1-GR1-ERA10-10621, Budget: 41176.5 €
4. *Electromagnetic Compatibility of Electronic Control Units and other Electronic Devices in Modern Vehicles. Development of Computational Techniques for Analysis and Design – Experimental Study (ECEDeMoV)*, Budget: 75000 € (Archimedes III – Research Groups Enforcement in TEI/ESPA/GSRT), **10/2012 – 9/2015**
5. *Construction of an electrically assisted tricycle aligned with european regulations for movement in bicycle lanes*, Budget: 10000 € (Special Account of Funds and Research A.T.E.I.Th.), **12/2012 – 08/2014**
6. *Vocational Training and Certification in the Installation of Compressed Natural Gas (CNG) Fuel Systems in Vehicles*, Budget: 1064.00 € (TUV Austria-Hellas), **2016**
7. *bEyonD the boRder of electrIc VEHicles: an advanced inTeractive cOURse*, Budget: 724583 € (Erasmus Plus KA2). **01/2020 – 12/2022**, GA: 612522-EPP-1-2019-1-EL-EPPKA2-KA
8. *INHABITAT - Intelligent SustaiNable HABITATs MSc course*, Budget: 1307458 € (Erasmus Plus KA2), Project Number: 101108631 under call ERASMUS-EDU-2022-PI-ALL-INNO, **01/2024 – 06/2027**.

Member of the research/educational group (indicative)

1. *Study of destructive shear instability mechanisms during treatment of titanium alloy Ti-6Al-4V through the finite element method*, Scientific coordinator: Dr. A. Korlos, Assist. Professor of the Department of Automotive Engineering of A.T.E.I.Th. (Archimedes III – Research Groups Enforcement in TEI /ESPA /GSRT), **9/2012 – 8/2015**
2. *Experimental and analytical study of reliability and optimisation of vehicle parts during crash*, Scientific coordinator: Dr. P. Aisopoulos, Assist. Professor of the Department of Automotive Engineering of A.T.E.I.Th. (PRE 2010/ Research Committee/ A.T.E.I.Th.), **01/2013 –12/2013**
3. *Use of impregnated nets in cetacean avoidance in coastal fisheries*, (GSRT/Fishing), Coordinator: Prof. George Minos.
4. *Integrated Quality Control System Design. Study in Non-Hazardous Waste Recycling* (GSRT/Research-Create-Innovate), Coordinator: Fotis Stergiopoulos
5. *Quality Control of Production Processes Using an Integrated Decision Making System* (GSRT/Research-Create-Innovate), Coordinator: Fotis Stergiopoulos
6. *Intelligent Internet of Things System for measuring quality and Consumption in a water supply network*, (GSRT/Research-Create-Innovate), Coordinator: Dimitrios Bechtsis
7. *Surveying & MARiTime internet of thingS EducAtion*, Budget: 971365 € (Erasmus Plus KA2). **11/2019 – 10/2022**, GA: 612198-EPP-1-2019-1-ES-EPPKA2-KA

8. *masTERs course on smArt Agriculture TECHnologies*, Budget: 989890 € (Erasmus Plus KA2). **11/2020 – 10/2023**, GA: 621568-EPP-1-2020-1-PT-EPPKA2-KA
9. *ECOLUTION - mastErs COurse on smart sustainability soLUTIONs*, Budget: 1139709 € (Erasmus Plus KA2). **02/2024 – 01/2027**, Project Number: 101140050 under call ERASMUS-EDU-2022-PI-ALL-INNO
10. *ICE-LINK - Integration of Advanced Experiments, Computation and Data for Innovation in Freeze Casting and Advanced Porous Structures*, Budget: 363400 € (HORIZON-MSCA). **01/2024 – 12/2027**, Project Number: 101130406 under call HORIZON-MSCA-2022-SE-01-01.
11. *GREENING ETHIOPIA - Towards a more climate responsive HE system in support of sustainable agriculture and energy in Ethiopia*, Budget: 999968 € (ERASMUS-LS). **01/2026 – 12/2029**, Project Number: 101235967 under call ERASMUS-EDU-2025-CBHE-STRAND-3

4. TEACHING EXPERIENCE

- 2003-2007** Lecturer at the Department of Mechanical and Industrial Engineers, University of Thessaly, Greece (*courses*: Electrical machines, Electrotechnics)
- 2003-2008** Lecturer at the Department of Technological Mechanical Engineers (*courses*: Electrical machines, Electrotechnics) and at the Department of Informatics and Communications (*courses*: Digital Communications, Computational Techniques), TEI of Serres, Greece
- 2008-2014** Assistant Professor at the Department of Automotive Engineering (*courses*: Automotive electronics, Electric vehicles, Automotive Mechatronics), ATEI of Thessaloniki, Greece
- 2014-2019** Associate Professor at the Department of Automotive Engineering (*courses*: Automotive electronics, Electric vehicles, Automotive Mechatronics), ATEI of Thessaloniki, Greece
- 2019-2024** Associate Professor at the Department of Industrial Engineering and Management (*courses*: Automotive electronics, Vehicle Electrification, Introduction to Electric Circuit Analysis), International Hellenic University, Greece
- 2024-Today** Professor at the Department of Industrial Engineering and Management (*courses*: Automotive electronics, Vehicle Electrification, Numerical Analysis, Introduction to Electric Circuit Analysis), International Hellenic University, Greece

5. SCHOLARSHIPS – AWARDS

- 1993-1996** Scholarships of the S.S.F. (State Scholarship Foundation) during undergraduate studies.
- 1993-1997** Awards by Technical Chamber of Greece, Agricultural Bank of Greece for the academic performance.
- 1998** First award “Ericsson Award of Excellence in Telecommunications” for the diploma thesis by Ericsson Hellas.
- 2005** Scholarship by the State Scholarships Foundation (IKY) for post-doctoral research (Contract No: 501/2005) entitled: Generalization of the Topologically Consistent Conformal Finite Difference Time Domain Method for Fully Three Dimensional, Non-orthogonal Interfaces
- 2013** 3rd Quality Award for the coordination of the Erasmus LLP Intensive Program entitled: "Powering the Future with Zero Emission and Human Powered Vehicles", by the Greek National Agency for Erasmus Programs (State Scholarship Foundation, I.K.Y.)
- 2024** Casimir Pulaski Medal, University of Casimir Pulaski, Radom, Poland

6. OTHER ACTIVITIES

- President of the Department of Automotive Engineering, Alexander TEI of Thessaloniki (**2015-2017, 2017-2019**), Member of the Senate of ATEIth (**2015-2017, 2017-2019**), Member of the Research Committee of ATEIth (**09/2016-12/2017**), Member of the School of Technological Applications Council (**2015-2017, 2017-2019**).
- Vice President of the Department of Industrial Engineering and Management, International Hellenic University (**2019-**)
- Co-founder and Director of the Laboratory of Energy Systems of the Department of Industrial Engineering and Management, International Hellenic University (**2021 –**)
- External Member of Industrial PhD examination committee
 - Dr. Armand Rius Rueda, *A novel optimization methodology of modular wiring harnesses in modern vehicles: Weight reduction and safe operation*. Supervisor: Prof. Antonio Garcia Espinosa, Universitat Politècnica de Catalunya, Spain, **06/2017**.

- Reviewer for various journals (*SAE Journal of Electrified Vehicles*, *SAE Journal of Commercial Vehicles*, *IEEE Transactions on Microwave Theory and Techniques*, *IEEE Transactions on Industrial Electronics*, *Springer Telecommunication Systems*, *MDPI Energies*, *Sustainability*, *WEVJ* etc) and a number of symposia (*IEEE E-CON*, *VEHITS*, *CEFC* etc.).
- Evaluator of Erasmus+ EACEA projects.
- Co-chair of the Workshop on Greening urban mobility with applications of Intelligent Transportation Systems (Green ITS) in the frame of the 11th International Conference on Telecommunications for Intelligent Transport Systems (ITST-2011), St. Petersburg, Russia, **August 23-25, 2011**.
- Member of the Organisation and Scientific Committee in various Conferences (CEFC 2026, ICTD 2026, ICTD 2022, Special Session on Intelligent Mobility, Logistics and Transport iMLTrans 2020 in the frame of VEHITS 2020).
- Evaluator as member of the Physical Subject Certification Group for the project: *Study of the application of hybrid and electric vehicles in Greek environment (HyTech)*, Coordinating Organisation: NTUA (VEHICLES LABORATORY, School of Mechanical Engineers). Action «COOPERATION 2009»/GSRT

7. PUBLICATIONS

Dr. Kosmanis is the author and co-author of **1 book chapter**, **24 papers** in international journals with referees, **44 papers** in proceedings of international conferences with referees. More than 250 citations to his papers have been so far referred. The h-index factor is 9.

Indicative Publications of the last 5 years

- Charitonidis, D. Tziourtzioumis, K. Kravari and T. Kosmanis, "Marine Surveying Education by Implementing Artificial Intelligence on Remotely Operated Underwater Vehicle Sensors," In: Rodríguez González S. et al. *Distributed Computing and Artificial Intelligence, Volume 2: Special Sessions of the 18th International Conference. DCAI 2021. Lecture Notes in Networks and Systems*, vol 332. Springer, 2022. https://doi.org/10.1007/978-3-030-86887-1_10
- P. Maroulas, D. Tziourtzioumis, G. Katranas and T. Kosmanis, "Design and Configuration of Software Tools for the Remote Performance of Laboratory Experiments in Marine Survey Education," In: Rodríguez González S. et al. *Distributed Computing and Artificial Intelligence, Volume 2: Special Sessions 18th International Conference. DCAI 2021. Lecture Notes in Networks and Systems*, vol 332. Springer, 2022. https://doi.org/10.1007/978-3-030-86887-1_11
- T. Anagnostaki, S. Sarakinioti, D. Tziourtzioumis and T. Kosmanis, "Student Training on IoT Marine Surveying: a Hands-on Perspective by means of Remotely Underwater Vehicles," In: Mehmood, R., et al. *Distributed Computing and Artificial Intelligence, Special Sessions I, 20th International Conference. DCAI 2023. Lecture Notes in Networks and Systems*, vol 741. Springer, Cham. https://doi.org/10.1007/978-3-031-38318-2_23
- Theodoros Kosmanis, Dimitrios Tziourtzioumis, Andreas Riel and Michael Reiner, "Supporting the growth of electric vehicle market through the E-DRIVETOUR educational program," presented at the EuroSPI2 2023 – 30th European Systems Software and Service Process Improvement and Innovation Conference, Grenoble, France, August 30th- September 1st, 2023 Yilmaz, M., Clarke, P., Riel, A., Messnarz, R. (eds) *Systems, Software and Services Process Improvement. EuroSPI 2023. Communications in Computer and Information Science*, vol 1890. Springer, Cham. https://doi.org/10.1007/978-3-031-42307-9_13
- Kosmanis T, Górski K, Tziourtzioumis D, Sander P, Ruslans S. Implementation of Blended Learning Approach for Tertiary Level Training on Vehicle Electrification. *Advances in Science and Technology Research Journal*. 2024;18(7).
- Dimitrios Tziourtzioumis, George Minos, Triantafyllia Anagnostaki, Eleftherios Kenanidis, and Theodoros Kosmanis. 2026. "Design and Development of a Sensor-Enhanced Remotely Operated Underwater Vehicle (ROUV) Platform for Environmental Monitoring" *Sensors* 26, no. 3: 905. <https://doi.org/10.3390/s260309>