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FOUNDATION FOR RESEARCH AND TECHNOLOGY – HELLAS (FORTH)

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PERSONAL SUMMARY

I recently act as an Assistant Professor in the Department of Electronic Engineering of the Hellenic Mediterranean University in addition to my long-standing affiliation as a Research Associate in Wireless & Long-Distance Communication Lab., Department of Electrical & Computer Engineering of the National Technical University of Athens. Also, I am a collaborating faculty member at the Institute of Geoenery of FORTH. Past positions include an EMC Consultant at EMTech SPACE P.C. to various projects of ESA's ITT. I received the B.Sc. & M.Sc. degree in Physics and Informatics from the National & Kapodistrian University of Athens (UOA), and the PhD degree from the National Technical University of Athens (NTUA) in 2014.

The main research interests are in the field of Electromagnetic Compatibility, Inverse Scattering, Antenna Design & Propagation. My recent research focused on modelling and measuring techniques of electromagnetic emissions in the quasi-static domain. Past positions include Hellenic Telecommunications Organization and various research projects in collaboration with National and Kapodistrian University of Athens, National Technical University of Athens, European Research Agencies and the Hellenic Ministry of Finance. I am currently supervising 6 Ph.D. Students, 2 MSc Students and numerous BSc Students, in total, I have generated grants totaling > 1.800,000.00 € as principal investigator (PI) and I have participated in grants totaling > 2,500,000.00 € as an associate/senior investigator (AI/SI).

PROFESSIONAL & RESEARCH EXPERIENCE

Hellenic Mediterranean University

School of Engineering, Department of Electronic Engineering.

ASSISTANT PROFESSOR

Crete, Greece

September 2020 — present

Hellenic Mediterranean University

School of Engineering, Department of Electronic Engineering.

ADJUNCT LECTURER - RESEARCH ASSOCIATE

Crete, Greece

September 2018 — August 2020

National Technical University of Athens

School of Electrical and Computer Engineering, Wireless & Long-Distance Communications Lab.

RESEARCH ASSOCIATE

Athens, Greece

March 2008 — present

EMTech SPACE P.C.

SENIOR EMC ENGINEER/ CONSULTANT

Athens, Greece

April 2016 — August 2019

National & Kapodistrian University of Athens

School of Sciences, Department of Physics.

RESEARCH ASSOCIATE

Athens, Greece

March 2016 — August 2016

Hellenic Telecommunications Organization S.A. (O.T.E.)

Athens, Greece

April 2004 – June 2004

EDUCATION

National Technical University of Athens

School of Electrical and Computer Engineering

PH.D. IN ELECTRICAL & COMPUTER ENGINEERING

Dissertation Title: "Smart Antennas Technologies & Applications"

Thesis Advisor: Prof. C. N. Capsalis

Athens, Greece

March 2014

National & Kapodistrian University of Athens

School of Sciences, Department of Physics / Informatics & Telecommunications

M.ENG. IN TELECOM ENGINEERING

Thesis Title: DVB-T for Handheld Devices

Thesis Advisor: Prof. I. G. Tigelis

Athens, Greece

September 2012

National & Kapodistrian University of Athens

School of Sciences, Department of Physics

B.SC. IN PHYSICS SCIENCES

Thesis Title: Evaluation of Wireless Standards 802.11 a, b, g.

Thesis Advisor: Prof. G. Tombras

Athens, Greece

September 2006

ACADEMIC HONORS, GRANTS AND AWARDS

Post Doc Research Grant

Research Proposal: Smart Microwave Devices of Nanomaterials with Application in Bodycentric Communications and the Internet of Things (MWNanoWearIoT) – **Project Fund: 45.500€**

NSRF 2014-2020

Athens, Greece

2019

Post Doc Research Grant

Research Proposal: Modeling Electromagnetic Emissions of Space Equipment for EMC and Cleanliness Purposes (acting as Prime Investigator & Scientific Supervisor) – **Project Fund: 190.000€**

ELIDEK

Athens, Greece

2018

NVIDIA GPU Grant

Support the proposed Research (Modeling Methods for Electro-Magnetic Compatibility and Cleanliness purposes of space mission's critical equipment) in the field of Algorithms & Numerical Techniques, Material Science, and Physics. – **Project Fund: 5.000€**

NVIDIA Corporation

Austin, Texas

2017

Thomaidion Award for Scientific Publications

National Technical University of Athens

(C. D. Nikolopoulos, A. T. Baklezos, C. N. Capsalis, (2016). Reconfigurable Antennas: Theory and Techniques – A Survey. In M. Matin (Ed.), Wideband, Multiband, and Smart Reconfigurable Antennas for Modern Wireless Communications (pp. 203-236). Hershey, PA: Information Science Reference. doi:10.4018/978-1-4666-8645-8.ch007)

Athens, Greece

2015

Thomaidion Award for Scientific Publications

National Technical University of Athens

(Nikolopoulos, C. D., & Capsalis, C. N. (2014). Hybrid method of moments-induced EMF method for analyzing multi-element planar inverted F antenna arrays. *Microwaves, Antennas & Propagation, IET*, 9(7), 657-663.)

Athens, Greece

2014

Thomaidion Award for Scientific Publications

National Technical University of Athens

(C. D. Nikolopoulos and C. N. Capsalis, "A Novel Antenna System for Body Temperature Change Detection Appropriate for Multi-channel Microwave Radiometry", *Progress In Electromagnetic Research (PIER) M*, vol. 33, p.197-209, 2013)

Athens, Greece

2013

Thomaidion Award for Scientific Publications

National Technical University of Athens

(C. D. Nikolopoulos and C. N. Capsalis, "A small broadband switched-beam cross Pifa for mobile WiMAX applications", *Journal of Electromagnetic Waves and Applications- JEMWA*, vol. 26, Issue 17-18, pp. 2418-2425, 2012)

Athens, Greece

2012

Thomaidion Award for Scientific Publications

National Technical University of Athens

(C. D. Nikolopoulos, C. I. Tsitouri, T. D. Dimousios and C. N. Capsalis, "A Compact Single Feed, Low Cost Broadband Switched-Beam Antenna for Mobile Wimax Applications," *PIERS*, 85-88, 2011)

Athens, Greece

2011

PUBLICATIONS & OTHER WRITINGS

Peer Reviewed Journal Articles

- [J44] A. Maipas, I. O. Vardiambasis, **C. D. Nikolopoulos**, N. Kavantzias, "A Mini-Review of the Potential Health Impacts of Indoor Radiation Exposure in Companion Animals," *Environmental Health Insights*, 2025, doi: 11786302251342972
- [J43] G. A. Adamidis, A. T. Baklezos, M. P. Ioannidou, **C. D. Nikolopoulos**, I. O. Vardiambasis, "Design and Implementation of a Low-cost Software Defined Magnetometer", *IEEE Transactions on Instrumentation & Measurement*, 2025, (Under Review)
- [J42] S. Evangelatos, E. Veroni, G. Dede, M. Konidi, S. karagiorgou, K. Markakis, and **C. D. Nikolopoulos**, "Self-Healing Mechanisms for Resilient IoT Systems: Balancing Cybersecurity, Cost, Downtime and Risk," *IEEE Transactions on Consumer Electronics*, 2025, (Under Review)
- [J41] S. Evangelatos, E. Veroni, V. Efthymiou, **C. D. Nikolopoulos**, "Modeling Disinformation Spread in Social Networks: Phase Transitions and Mean-Field Analysis", *ACM Transactions on Web*, 2025.
- [J40] S. Evangelatos, E. Veroni, **C. D. Nikolopoulos**, P. Sarigiannidis, "Exploring Influence Dynamics and Disinformation Spread Through Graphical Models and Loopy Belief Propagation Algorithms," *IEEE Transactions on Computational Social Systems*, 2025 (Accepted Major Revisions)
- [J39] S. Evangelatos, E. Veroni, V. Efthymiou, **C. D. Nikolopoulos**, G. T. Papadopoulos, P. Sarigiannidis, "Exploring Energy Landscapes for Minimal Counterfactual Explanations: Applications in Cybersecurity and Beyond," *IEEE Transactions on Artificial Intelligence*, 2025 (Accepted Major Revisions)
- [J38] D. A. Rigas-Papakonstantinou, K. K. Spyridakis, A. N. Lampou, A. T. Baklezos, I. O. Vardiambasis, V. Kassouras, A. Kaltampani, **C. D. Nikolopoulos**, "A Modified Rod Antenna with Tapered Feeding for HPM Applications" *IEEE Antennas and Wireless Propagation Letters*, 2025 (Accepted Major Revisions).
- [J37] A. Maipas, I. O. Vardiambasis, C. D. Nikolopoulos, N. Kavantzias, "A Mini-Review of the Potential Health Impacts of Indoor Radiation Exposure in Companion Animals," *Environmental Health Insights*, 2025, doi: 11786302251342972
- [J36] S. Evangelatos, E. Veroni, V. Efthymiou, **C. D. Nikolopoulos**, G. T. Papadopoulos, P. Sarigiannidis "Adaptive Policy-Oriented Cybersecurity: A Decentralized Framework Using Message Passing Algorithms for Dynamic Threat Mitigation," in *IEEE Access*, vol. 13, pp. 65216-65231, 2025, doi: 10.1109/ACCESS.2025.3559428.
- [J35] E. A. Zaoutis,, G. S. Liodakis, A. T. Baklezos, **C. D. Nikolopoulos**, M. P. Ioannidou,, & I. O. Vardiambasis, "6G Wireless Communications and Artificial Intelligence-Controlled Reconfigurable Intelligent Surfaces: From Supervised to Federated Learning," *Applied Sciences*, 15(6), 3252, 2025. <https://doi.org/10.3390/app15063252>.
- [J34] A. C. Barmpatza, A. T. Baklezos, I. O. Vardiambasis and **C. D. Nikolopoulos**, "A Review of Characterization Techniques for Ferromagnetic Nanoparticles and the Magnetic Sensing Perspective," in *Applied Sciences*, vol 14, issue 12, 2024.
- [J33] A. N. Lampou, A. T. Baklezos, K. K. Spyridakis, D. A. Rigas-Papakonstantinou, I. O. Vardiambasis, & **C. D. Nikolopoulos**, "Measurement-Based Neural Network Technique for Modeling the Low-Frequency Electric Field Radiated Behavior of Satellite Units." *Applied Sciences*, 14(23), 11283, 2024. <https://doi.org/10.3390/app142311283>
- [J32] A. C. Barmpatza, A. T. Baklezos, I. O. Vardiambasis and **C. D. Nikolopoulos**, "Estimation of the Magnetic Signature of Ferromagnetic Nanoparticles by Earth's Magnetic Field," in *IEEE Access*, vol. 11, pp. 14832-14840, 2023, doi: 10.1109/ACCESS.2023.3244408.
- [J31] **C. D. Nikolopoulos**, A. T. Baklezos, T. N. Kapetanakis, I. O. Vardiambasis, T. Tsubota and D. Kalderis, "Characterization the Electromagnetic Shielding Effectiveness of Biochar-based Materials," in *IEEE Access*, doi: 10.1109/ACCESS.2023.3237327.
- [J30] N. Fragiadakis, A. T. Baklezos, T. N. Kapetanakis, I. O. Vardiambasis and **C. D. Nikolopoulos**, "A Cooperative Method Based on Joint Electric and Magnetic Cleanliness for Space Platforms EMC Assessments," in *IEEE Access*, vol. 10, pp. 130850-130860, 2022, doi: 10.1109/ACCESS.2022.3229388
- [J29] N. Fragiadakis, A. T. Baklezos, T. N. Kapetanakis, I. O. Vardiambasis and **C. D. Nikolopoulos**, "Electric Cleanliness Algorithm based on Multi-Unit Interaction and Reallocation," *WSEAS Transactions on Systems and Control*, 2022

- [J28] G.S. Liodakis, T.N. Kapetanakis, M.P. Ioannidou, A.T. Baklezos, N.S. Petrakis, **C.D. Nikolopoulos**, and I.O. Vardiambasis, Electromagnetic Wave Scattering by a Multiple Core Model of Composite Cylindrical Wires at Oblique Incidence. *Applied Sciences*, 12(19), p.10172. 2022.
- [J27] G. S. Liodakis, M. P. Ioannidou, N. S. Petrakis, A. T. Baklezos, T. N. Kapetanakis, **C. D. Nikolopoulos**, and I. O. Vardiambasis. "Effect of Buildings on the Radiation Characteristics of MF Broadcast Antennas." *Applied Sciences*, vol 12, no. 13, 2022.
- [J26] T. N. Kapetanakis, M. P. Ioannidou, A. T. Baklezos, **C. D. Nikolopoulos**, E. S. Sergaki, A. J. Konstantaras, and I. O. Vardiambasis. "Assessment of Radiofrequency Exposure in the Vicinity of School Environments in Crete Island, South Greece." *Applied Sciences*, vol 12, no. 9, pp 2076-3417, 2022.
- [J25] A. T. Baklezos, T. N. Kapetanakis, I. O. Vardiambasis, C. N. Capsalis, and **C. D. Nikolopoulos**. 2022. "An Approach for Modelling Harnesses in the Extreme near Field for Low Frequencies" *Applied Sciences* 12, no. 6: 3202. <https://doi.org/10.3390/app12063202>
- [J24] T.N. Kapetanakis, **C.D. Nikolopoulos**, K. Petridis, and I.O. Vardiampasis, "Integrated in Clothes Graphene Antenna with Low SAR for Wearable Body-Centric Communications," *International Journal of Circuits, Systems and Signal Processing*, vol. 15, p.1657-1665, 2021, DOI: 10.46300/9106.2021.15.179
- [J23] T. N. Kapetanakis, I. O. Vardiambasis, **C. D. Nikolopoulos**, A. Konstantaras, T. K. Trang, D. A. Khuong, T. Tsubota, R. Keyikoglu, A. Khataee, D. Kalderis, "Towards engineered hydrochars: application of artificial neural networks in the hydrothermal carbonization of sewage sludge," *Energies*, 2021
- [J22] T. N. Kapetanakis, **C. D. Nikolopoulos**, K. Petridis, and I. O. Vardiambasis, "Wearable Textile Antenna with a Graphene Sheet or Conductive Fabric Patch for the 2.45 GHz Band," *Electronics*, vol. 10, no. 21, p. 2571, Oct. 2021.
- [J21] T.N. Kapetanakis, M. Pavec, M.P. Ioannidou, **C.D. Nikolopoulos**, A.T. Baklezos, R. Soukup, I.O. Vardiambasis, Embroidered Bow-Tie Wearable Antenna for the 868 and 915 MHz ISM Bands. *Electronics* 2021, 10, 1983. <https://doi.org/10.3390/electronics10161983>
- [J20] A. D. Bechrakis Triantafyllos, A. P. Mavropoulou, A. T. Baklezos, C. N. Capsalis, **C. D. Nikolopoulos**, "Towards the Prediction of SpaceWire Radiated emissions, employing an LVDS Signal Emulator" *IEEE Access*, 10.1109/ACCESS.2021.3062166
- [J19] A.E. Kaprana, I. O. Vardiambasis, T. N. Kapetanakis, M. P. Ioannidou, **C. D. Nikolopoulos** and G. E. Lyronis, "Experimental Study of Potential Adverse Effects on the Auditory System of Rabbits Exposed to GSM-1800 Radiation", *International Journal of Radiation Biology*, DOI: 10.1080/09553002.2021.1859152
- [J18] I. O. Vardiambasis, T. N. Kapetanakis, **C. D. Nikolopoulos**, T. Kieu Trang, T. Tsubota, R. Keyikoglu, A. Khataee, and D. Kalderis, "Hydrochars as emerging biofuels: recent advances and application of artificial neural networks for the prediction of heating values," *Energies*, 13(17), 4572, 2020. doi.org/10.3390/en13174572
- [J17] **C. D. Nikolopoulos**, A. T. Baklezos and C. N. Capsalis, "On Achieving Spacecraft Level Magnetic Cleanliness with Proper Equipment Ordinance of DC and ELF Magnetic Sources", *IEEE Transactions on Electromagnetic Compatibility*, 2020 DOI: 10.1109/TEM.2020.2992682.
- [J16] G. I. Koutantos, **C. D. Nikolopoulos**, A. T. Baklezos and C. N. Capsalis, "Proper Equipment Ordinance for Achieving EM Cleanliness in Space Missions: The Case of ELF Electric Sources", *IEEE Transactions on Electromagnetic Compatibility*, 2019, DOI: 10.1109/TEM.2019.2937379.
- [J15] **C. D. Nikolopoulos**, A. T. Baklezos, Stylianos Tsatalas and C. N. Capsalis, "Verification of Radiated Emissions Model of SpW/LVDS Links Routed with CFRP Ground", *IEEE Transactions on Aerospace and Electronic Systems*, vol. 56, no. 1, pp. 393-402, Feb. 2020. DOI: 10.1109/TAES.2019.2914540.
- [J14] **C. D. Nikolopoulos**, A. T. Baklezos, Nikolaos - Antonios Livanos and C. N. Capsalis, "UWB Patch Antenna with Composite Dielectric Substrate for Subcutaneous Biomedical Sensing", *International Journal on Communications Antennas and Propagation* Vol.9, No 2, 2018.
- [J13] N.-A. Livanos, S. Hammal, **C. D. Nikolopoulos**, A. T. Baklezos, C. N. Capsalis, G. Koulouras, I. O. Vardiambasis, A. Nasiopoulos, S. Kostopoulos, P. Asvestas, D. Cavouras and E. Siores, "Hand-held Device for InDesign and Interdisciplinary Simulations of a Hand-held Device for Internal-Body Temperature Sensing Using Microwave Radiometry", *IEEE Sensors*, vol. 18, no. 6, pp. 2421-2433, 15 March 2018. DOI: 10.1109/JSEN.2018.2791443
- [J12] A. T. Baklezos, **C. D. Nikolopoulos**, C. N. Capsalis, "An Equivalent Dipole Method with Novel Measurement Positioning for Modeling Electric Emissions in Space Missions," *Electromagnetics*, vol. 37, Issue 7, pp 439-453, 2017. DOI: 10.1080/02726343.2017.1376902
- [J11] A. T. Baklezos, **C. D. Nikolopoulos**, C. N. Capsalis, "A Planar On-Body Antenna System for Cancerous Tumor Detection through Microwave Transmission Sensing," *Journal of Electrical Engineering*, Vol. 17, issue 1, pp. 231-236, 2017
- [J10] G. I. Koutantos; **C. D. Nikolopoulos**; A. T. Baklezos; C. N. Capsalis, "On the Modeling of ELF Electric Fields for Space Mission Equipment," in *IEEE Transactions on Electromagnetic Compatibility*, vol.59, issue: 5, 2017
- [J09] A. T. Baklezos; **C. D. Nikolopoulos**; A. G. Katsouris; G. I. Koutantos; C. N. Capsalis, "Electromagnetic Emission Modeling in Case of Shielded Cabling with Respect to the Ground Dielectric Properties," in *IEEE Transactions on Electromagnetic Compatibility*, vol.58, issue: 6, pp.1-7, 2016

- [J08] A. G. Katsouris, **C. D. Nikolopoulos**, A. T. Baklezos, C. N. Capsalis, "A Novel Reconfigurable Antenna array with Controllable tuning and Beam steering," *Microwave and Optical Technology Letters*, Vol. 58, issue 8, pp. 1782-1786, 2016
- [J07] A. T. Baklezos, **C. D. Nikolopoulos**, A. Katsouris, C. N. Capsalis, "Analysis of Ultra-Wideband Elliptical Monopole with Modified Ground for Applications in Radiometric Measurements," *International Journal on Communications Antennas and Propagation*, IRECAP, vol.5, No 1, 2015
- [J06] **C. D. Nikolopoulos** and C. N. Capsalis, "Hybrid method of moments – Induced EMF Method for Analyzing Multi-Element Planar Inverted F Antenna Arrays," in *IET Microwaves, Antennas & Propagation*, vol. 9, no. 7, pp. 657-663, 5 15 2015.
- [J05] **C. D. Nikolopoulos**, A. T. Baklezos and C. N. Capsalis, "Auto Reconfigurable Patch Antenna for Biomedical Single Channel Multi-Frequency Microwave Radiometry Applications", *Progress In Electromagnetics Research C*, Vol. 49, 19-29, 2014
- [J04] **C. D. Nikolopoulos** and C. N. Capsalis, "A Novel Antenna System for Body Temperature Change Detection Appropriate for Multi-channel Microwave Radiometry", *Progress in Electromagnetic Research (PIER) M*, vol. 33, p.197-209, 2013
- [J03] **C. D. Nikolopoulos** and C. N. Capsalis, "A small broadband switched-beam cross Pifa for mobile WiMAX applications", *Journal of Electromagnetic Waves and Applications- JEMWA*, vol. 26, Issue 17-18, pp. 2418-2425, 2012.
- [J02] **C. D. Nikolopoulos** and C. N. Capsalis, "The Impact of Corrugations In Optimized Planar Inverted F Antennas (Pifa's)," *International Journal on Communications antenna and Propagation*, IRECAP vol. 2, no1., feb. 2012
- [J01] T. D. Dimousios, **C. D. Nikolopoulos**, S. A. Mitilineos, C. N. Capsalis, "Design and Development of A New, Low- Profile And Low-Cost Spa-Pifa, Suitable for Mobile 2.4ghz Ism Applications," *Journal of Electromagnetic Waves and Applications - JEMWA*, vol. 24, no. 7, page 881-891, 2010.

Peer Reviewed Conference Papers

- [C58] P. K. Papastamatis, E. P. Nicolopoulou, C. D. Nikolopoulos, N. C. Ilia, C. A. Christodoulou, I. F. Gonos, "Analysis of the probe loading effect of current monitoring probes used during ESD testing according to IEC 61000-4-2," EMC Europe 2025, Paris, **(Accepted)**
- [C57] K. Spyridakis, D. Rigas-Papakonstantinou, A. Lampou, A. Baklezos, I. Vardiambasis, C. Nikolopoulos "Metaheuristic Algorithms Performance Comparison for U-Slot Patch Antenna Optimization for X-band application," 2025 6th International conference in Electronic Engineering & Information Technology, Chania, Greece, 2025, 4-6 June. **(Accepted)**
- [C56] D. Rigas-Papakonstantinou, K. Spyridakis, A. Lampou, A. Baklezos, I. Vardiambasis, C. Nikolopoulos "A Comparative Study of Bio-Inspired Algorithms for K-Band Antenna Array Optimization," 2025 6th International conference in Electronic Engineering & Information Technology, Chania, Greece, 2025, 4-6 June. **(Accepted)**
- [C55] K. K. Karamichalis, A. N. Lampou, G. S. Liodakis, A. T. Baklezos, C. D. Nikolopoulos, I. O. Vardiambais, "Applying Agile Principles in the Research and Education Activities of a University Telecommunications Laboratory," 2025 6th International conference in Electronic Engineering & Information Technology, Chania, Greece, 2025, 4-6 June. **(Accepted)**
- [C54] A. Lampou, D. Rigas-Papakonstantinou, K. Spyridakis, A. Baklezos, C. Nikolopoulos, I. Vardiambasis, "Monitoring the electromagnetic environment for general public in tourist destinations: The case study of Platanias, Chania, Crete, Greece," 2025 6th International conference in Electronic Engineering & Information Technology, Chania, Greece, 2025, 4-6 June. **(Accepted)**
- [C53] M. Konidi, S. Karagiorgou, E. Veroni, C. D. Nikolopoulos "Addressing Disinformation and Deep Fakes Spread through AI-fuelled International Collaboration," 2025 6th International conference in Electronic Engineering & Information Technology, Chania, Greece, 2025, 4-6 June. **(Accepted)**
- [C52] A. Maipas, I. O. Vardiambasis, C. D. Nikolopoulos, N. Kavantzaz, "Printing environmental health: Raising awareness and promoting environmental health education through 3D printing," 2025 6th International conference in Electronic Engineering & Information Technology, Chania, Greece, 2025, 4-6 June. **(Accepted)**
- [C51] G. S. Liodakis, A.T. Baklezos, C. D. Nikolopoulos, M. P. Ioannidou, I. O. Vardiambasis, "Additive Manufacturing meets Reconfigurable Intelligent Surfaces: Opportunities and Challenges," 2025 6th International conference in Electronic Engineering & Information Technology, Chania, Greece, 2025, 4-6 June. **(Accepted)**
- [C50] P. Mavridis, A. T. Baklezos, C. D. Nikolopoulos, "Connecting Account to Account Fund Transfer Services with Fiscal Receipts: The Case of Greece – IRIS," 2025 6th International conference in Electronic Engineering & Information Technology, Chania, Greece, 2025, 4-6 June. **(Accepted)**
- [C49] C. M. A. Pinto, J. M. P. Mendonca, L. Babo, D. M. L. D. Rasteiro, C. Caridade, K. Petridis, C. D. Nikolopoulos, E. Ulbrich and MaxWhere Solutions, "Empowering Engineering Students' Math Literacy with Digital Escape Rooms," 2025 IEEE World Engineering Education Conference (EDUNINE), Montevideo, Uruguay, 2025, Mar. 23-26
- [C48] D. M. L. D. Rasteiro, Cristina M.R. Caridade, Carla M. A. Pinto, Christos D. Nikolopoulos, Eva Ulbrich, Konstantinos Petridis, Jorge Mendonça, Lurdes Babo, Maxwhere Solutions and Selay Arkün Kocader, "Escape Rooms and Students Competencies," V International Conference on Mathematics and its Applications in Science and Engineering, ICMASE2024, 16-18 Sept.2024

- [C47] A. T. Baklezos, D. Kalderis, I. O. Vardiambasis, P. K. Papastamatis and C. D. Nikolopoulos, "Investigating the EMI Shielding Effectiveness of Sustainable Biochar-Based Composites for 5G and 6G Mid-Band Applications," 2024 International Symposium on Electromagnetic Compatibility – EMC Europe, Brugge, Belgium, 2024, pp. 523-527, doi: 10.1109/EMCEurope59828.2024.10722376
- [C46] P. K. Papastamatis, I. P. Katsanaki, E. P. Nicolopoulou, C. D. Nikolopoulos, C. A. Christodoulou and I. F. Gonos, "Comparative analysis of calibration procedures in current and proposed editions of the IEC 61000-4-2 Standard," 2024 International Symposium on Electromagnetic Compatibility – EMC Europe, Brugge, Belgium, 2024, pp. 483-488, doi: 10.1109/EMCEurope59828.2024.10722155.
- [C45] A. Nikolakopoulos, S. Evangelatos, E. Veroni, K. Chasapas, N. Gousetis, A. Apostolaras, C. D. Nikolopoulos, T. Korakis "Large Language Models in Modern Forensic Investigations: Harnessing the Power of Generative Artificial Intelligence in Crime Resolution and Suspect Identification," 2024 5th International Conference in Electronic Engineering, Information Technology & Education (EEITE), Chania, Greece, 2024, pp. 1-5, doi: 10.1109/EEITE61750.2024.10654427.
- [C44] D. M. L. D. Rasteiro et al., "Integrals Applications: A STEAM Activity to Teach/Learn Mathematics in Higher Education," 2024 5th International Conference in Electronic Engineering, Information Technology & Education (EEITE), Chania, Greece, 2024, pp. 1-5, doi: 10.1109/EEITE61750.2024.10654423.
- [C43] P. Mavridis, A. T. Baklezos and C. D. Nikolopoulos, "e-Invoicing Provider Services in Greece: New Perspectives and Weaknesses," 2024 5th International Conference in Electronic Engineering, Information Technology & Education (EEITE), Chania, Greece, 2024, pp. 1-4, doi: 10.1109/EEITE61750.2024.10654410.
- [C42] M. V. L. Giudice, A. S. Yazdi, A. Aziani, S. Evangelatos, N. Gousetis and C. Nikolopoulos, "Informative (Dis)information: Exploring the Correlation Between Social Media Disinformation Campaigns and Real-World Criminal Activity," 2024 5th International Conference in Electronic Engineering, Information Technology & Education (EEITE), Chania, Greece, 2024, pp. 1-6, doi: 10.1109/EEITE61750.2024.10654415.
- [C41] A. C. Barmpatza, A. T. Baklezos, I. O. Vardiambasis and C. D. Nikolopoulos, "Cobalt Catalyst Hysteresis Loop Simulations: The Impact of Nanoparticle Number and Nearest Neighbor Distance," 2024 5th International Conference in Electronic Engineering, Information Technology & Education (EEITE), Chania, Greece, 2024, pp. 1-9, doi: 10.1109/EEITE61750.2024.10654421.
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- [B2] **C. D. Nikolopoulos**, "Preface" in Recent Trends on Electromagnetic Environmental Effects for Aeronautics and Space Applications. IGI Global. <http://doi:10.4018/978-1-7998-4879-0>
- [B1] **C. D. Nikolopoulos**, "Preface" in Electromagnetic Compatibility for Space Systems Design, Hershey, PA: Engineering Science Reference, IGI Global, 2018 (DOI: 10.4018/978-1-5225-5415-8)

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- [3] Christos D. Nikolopoulos, Space EMC and Magnetic Cleanliness issues on Science Missions, *Plenary Lecture in 26th International Conference on Circuits, Systems, Communications and Computers (CSCC 2022)*.
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PARTICIPATION IN NATIONAL/EUROPEAN PROJECTS

ORION (EUROPEAN UNION – HORIZON-CL3-2024-BM-01-04), GRANT AGREEMENT UNDER PREPARATION

Hellenic Mediterranean University, Greece

SCIENTIFIC SUPERVISOR/ P.I.

HORIZON EUROPE

June. 2025 – Mar. 2028

(Budget: 5.134.718,75 €)

Budget for HMU: 202.675,00 €

SMART, HETEROGENEOUS TECHNOLOGICAL PLATFORM EXTENDING THE POWER AND FREQUENCY LIMITS OF FLEXIBLE NANOELECTRONICS (EUROPEAN DEFENSE FUNDING - OPEN CALL ADDRESSING DISRUPTIVE TECHNOLOGIES FOR DEFENCE, POWERFLEX PROJECT), (ELKE HMU PROJECT CODE: 81137)

Hellenic Mediterranean University, Greece

SCIENTIFIC SUPERVISOR/ P.I.

PRISMA Electronics S.A.

Dec. 2024 – Nov. 2026

(Budget: 3,458,087.24 €)

Budget for HMU: 62.000,00 €

SCIENTIFIC AND TECHNICAL SUPPORT TO THE MINISTRY OF DIGITAL GOVERNANCE ON MATTERS OF ANALOG AND DIGITAL BROADCASTING (TELEVISION AND RADIO BROADCASTING), (ICCS NTUA PROJECT CODE: 61124100)

Institute of Communications and Computer Systems – National Technical University of Athens

SCIENTIFIC SUPERVISOR/ P.I.

EETT, Ministry of Digital Governance

Aug. 2024 – Jan. 2026

(Budget: 186.000,00 €)

PREPARATION OF AN EXPERT /TECHNOLOGICAL ASSESSMENT REPORT ON THE MAIN FACILITIES AND EXISTING TECHNOLOGICAL EQUIPMENT OF AVLIDA SHORTWAVE TRANSMISSION CENTER, (ICCS NTUA PROJECT CODE: 61124200)

Institute of Communications and Computer Systems – National Technical University of Athens

SCIENTIFIC SUPERVISOR/ P.I.

Ministry of Finance

Nov. 2024 – Dec. 2024

(Budget: 24.800,00 €)

OPTIMIZATION OF THE DIGITAL BROADCASTING MAP AND SUPPORT FOR INTERNATIONAL RADIO FREQUENCY COORDINATION, AND OPTIMIZATION AND UPDATING OF THE FM RADIO FREQUENCY MAP WITH SUPPORT FOR THE INTERNATIONAL RADIO FREQUENCY COORDINATION PROCESS, (ICCS NTUA PROJECT CODE: 62117600)

Institute of Communications and Computer Systems – National Technical University of Athens

SCIENTIFIC SUPERVISOR/ P.I.

EETT, Ministry of Digital Governance

Aug. 2023 – Dec. 2024

(Budget: 124.000,00 €)

MODELING CATALYTIC NANOPARTICLES VIA MAGNETIC MEASUREMENTS & MACHINE LEARNING TECHNIQUES (HFRI, SUB-ACTION 1. FUNDING NEW RESEARCHERS – RRF: BASIC RESEARCH FINANCING) (HORIZONTAL SUPPORT FOR ALL SCIENCES), NATIONAL RECOVERY AND RESILIENCE PLAN (GREECE 2.0), GRANT AGREEMENT No. 14993

Hellenic Mediterranean University, Greece

SCIENTIFIC SUPERVISOR/ P.I.

HFRI

Nov. 2023 – Nov. 2025

(Budget: 188.915,00 €)

RESEARCH AND DEVELOPMENT OF MICROSATELLITES, (ELKE HMU PROJECT CODE: 8084)

Hellenic Mediterranean University, Greece

SCIENTIFIC SUPERVISOR/ P.I.

Private Sector Companies

Dec. 2022 – Nov. 2026

(Budget: 14.800,00 €)

MATH-DIGGER - MATHEMATICS DIGITAL ESCAPE ROOMS (EUROPEAN UNION – ERASMUS+), GRANT AGREEMENT No. 2021-1-PT01-KA220-HED-000032234

Hellenic Mediterranean University, Greece

SENIOR RESEARCHER

Erasmus+

Feb. 2022 – Mar. 2025

(Total Budget: 275.573,00 €)

Budget for HMU: 25.000,00 €

FUNCTION AND OPERATION TESTING OF ELECTRONIC DEVICES AND SYSTEMS (ICCS PROJECT CODE: 62097600)

Institute of Communications and Computer Systems – National Technical University of Athens

SCIENTIFIC SUPERVISOR/ P.I.

ICCS –NTUA

Jan. 2017 – Dec. 2025

(Budget: 1.411.000,00 €)

ADVANCED TECHNOLOGY HIGHER EDUCATION NETWORK ALLIANCE / ATHENA»ERASMUS+,
EPLUS2020 ACTION GRANT / EPP-EUR-UNIV-2020
Hellenic Mediterranean University, Greece
RESEARCHER (WP3 EDUCATION: CREATING AN INNOVATIVE AND INCLUSIVE EDUCATIONAL OFFER, WP7
INTERNATIONALISATION: TRANSFORMING OUR INSTITUTIONS, NETWORKING AND OUTREACH)

Erasmus+
Feb. 2022 – Sep. 2023
(Budget: 164.854,05 €)

RESEARCH AND DEVELOPMENT SERVICES ON INTEGRATED ELECTRONIC SYSTEMS, (ELKE HMU PROJECT
CODE: 80922)
Hellenic Mediterranean University, Greece
SCIENTIFIC SUPERVISOR/ P.I.

MAT Advanced Technology S.A.
Jul. 2022 – Aug. 2023
(Budget: 24.000,00 €)

O/1-8574/16/NL/BW, "PRE-VERIFICATION OF THOR ELECTRO-MAGNETIC CLEANLINESS APPROACH"
(EUROPEAN SPACE AGENCY - ESA ITT)
EMTECH SPACE P.C., S. Davaki & 32 Korinthou Street 14451, Metamorfofi, Attiki, Greece
SENIOR EMC ENGINEER (Key Personnel– WP Manager / Responsible for WP2300)

European Space Agency ESA
Dec. 2016 – Mar. 2019
(Budget: 700.000,00 €)

PLATO MISSION - PROJECT ALLOCATED BY THALES ALENIA SPACE ITALIA (TASI), "PLATO M3 PHASE B1
DEFINITION STUDY - SYSTEM SUPPORT TO OPTICAL BENCH HARNESS AND GROUNDING DESIGN" (EUROPEAN
SPACE AGENCY - ESA ITT)
EMTECH SPACE P.C., S. Davaki & 32 Korinthou Street 14451, Metamorfofi, Attiki, Greece
SENIOR RESEARCHER (Proposal Author/ Key Personnel / Responsible for WP2000, WP3000)

Thales Alenia Space, TAS-I
Apr. 2016 – Aug. 2016
(Budget: 50.000,00 €)

TECHNICAL & CONSULTING SERVICES FOR INVESTIGATION THE CAUSES OF FAILURE TO TRANSMIT TELEVISION
SIGNAL TO PANHELLENIC RANGE STATIONS
National & Kapodistrian University of Athens, School of Sciences, Physics Department, Special
Account for Research Funding (ELKE)
SENIOR RESEARCHER

Digea S.A.
Jun. 2015 – Jul. 2015
(Budget: 25.000,00 €)

EMC/EMI MEASUREMENT AND ELECTROMAGNETIC INTERFERENCE BETWEEN LTE AND UMTS SIGNALS IN
POWER SUPPLIES AND MONITORING BOXES FOR LTE BASE STATIONS.
National Technical University of Athens, School of Electrical & Computer Engineering, Wireless &
Long-Distance Communication Lab.
SENIOR RESEARCHER

RAYCAP S.A.
Jun. 2014 – Jul. 2014
(Budget: 3.000,00 €)

FISCAL SYSTEMS OPERATIONAL CHARACTERISTICS EVALUATION AND CONNECTIONS INTERFACE TO REMOTE
SERVER (ICCS PROJECT CODE: 62104400)
National Technical University of Athens, School of Electrical & Computer Engineering, Wireless &
Long-Distance Communication Lab.
SENIOR RESEARCHER

ICCS –NTUA
Jan. 2015 – Dec. 2020
(Budget: 400.000,00 €)

FUNCTION AND OPERATION TESTING OF VESSEL MONITORING SYSTEMS BASED ON ΦΕΚ 3170/2018 (ICCS
PROJECT CODE: 62104400)
National Technical University of Athens, School of Electrical & Computer Engineering, Wireless &
Long-Distance Communication Lab.
SENIOR RESEARCHER

ICCS –NTUA
Sept. 2018 – Sept. 2021
(Budget: 40.000,00 €)

FUNCTION AND OPERATION TESTING OF ELECTRONIC DEVICES AND SYSTEMS (ICCS PROJECT CODE:
63109000)
National Technical University of Athens, School of Electrical & Computer Engineering, Wireless &
Long-Distance Communication Lab.
SENIOR RESEARCHER

ICCS –NTUA
Jul. 2019 – Dec. 2021
(Budget: 30.000,00 €)

CONSULTING SERVICES FOR THE DEVELOPMENT OF DIGITAL FREQUENCY MAP FOR THE TERRESTRIAL DIGITAL
VIDEO BROADCASTING AND PROCEDURES FOR INTERNATIONAL COORDINATION FOR THE MINISTRY OF
DIGITAL TELECOMMUNICATIONS AND INFORMATION POLICY (ICCS PROJECT CODE: 61114800)
National Technical University of Athens, School of Electrical & Computer Engineering, Wireless &
Long-Distance Communication Lab.

ICCS –NTUA
Sept. 2018 – Jun. 2019
(Budget: 74.400,00 €)

SENIOR RESEARCHER

CONSULTING SERVICES FOR THE DEVELOPMENT OF DIGITAL FREQUENCY MAP FOR THE DIGITAL AUDIO BROADCASTING AND PROCEDURES FOR INTERNATIONAL COORDINATION FOR THE MINISTRY OF DIGITAL TELECOMMUNICATIONS AND INFORMATION POLICY (ICCS PROJECT CODE: 61111600)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

CONSULTING SERVICES TO THE SECRETARIAT TELECOMMUNICATIONS AND POST MINISTRY FOR DIGITAL POLICY, TELECOMMUNICATIONS AND INFORMATION FOR THE INTERNATIONAL COORDINATION OF TERRESTRIAL DIGITAL VIDEO BROADCASTING RADIOFREQUENCIES (ICCS PROJECT CODE: 61111300)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

CONSULTING SERVICES FOR DIGITAL TELEVISION TO THE MINISTRY OF INFRASTRUCTURE, TRANSPORTS & NETWORKS (ICCS PROJECT CODE: 61110500)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

MEASUREMENT AND ANALYSIS OF SPACEWIRE SYSTEM ABOVE CONDUCTIVE MATERIALS (SYSTEM SUPPORT TO OPTICAL BENCH HARNESS AND GROUNDING DESIGN PLATO-TAS-ITALIA S.P.A. (ICCS PROJECT CODE: 62099200)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

CONSULTING SERVICES TO THE MINISTRY. INFRASTRUCTURE, TRANSPORTS. & NETWORKS FOR THE NEGOTIATION PROCESS WITH THE TELECOMMUNICATION WAKES COUNTRIES AND THE RESULTS OF FREQUENCY ALLOCATION OF THE DIGITAL TERRESTRIAL BROADCAST (ICCS PROJECT CODE: 61092700)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

TECHNICAL CONSULTANT FOR UPDATING FM RADIO FREQUENCY MAP AND SUPPORT TO THE RELEVANT INTERNATIONAL FREQUENCY COORDINATION (ICCS PROJECT CODE: 61092100)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

COORDINATOR OF THE RESEARCH PROJECT ENTITLED "MULTICHANNEL MICROWAVE RADIOMETRY FOR INTERNAL BODY TEMPERATURE MEASUREMENT (NSRF 2007 -2013), BILATERAL COLLABORATION IN RESEARCH AND TECHNOLOGY BETWEEN GREECE AND CHINA. (GSRT CODE: 12CHN181). (ICCS PROJECT CODE: 68002000)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

FUNCTIONAL TEST FOR ON-LINE FISCAL MECHANISMS BASED ON FISCAL LAW ΠΟΛ 1220/2012 ΚΑΙ 1221/2012 (ICCS PROJECT CODE: 62090100)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

ΑΝΑΛΥΣΗ ΛΕΙΤΟΥΡΓΙΚΩΝ ΔΙΑΔΙΚΑΣΙΩΝ ΦΟΡΟΛΟΓΙΚΩΝ ΜΗΧΑΝΙΣΜΩΝ ΜΕ ΒΑΣΗ ΤΙΣ ΕΚΑΣΤΟΤΕ ΙΣΧΥΟΥΣΕΣ ΤΕΧΝΙΚΕΣ ΠΡΟΔΙΑΓΡΑΦΕΣ ΤΟΥ ΥΠ. ΟΙΚΟΝΟΜΙΚΩΝ (ICCS PROJECT CODE: 62087500)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

ICCS –NTUA

Oct. 2017 – Jul. 2018

(Budget: 74.400,00 €)

ICCS –NTUA

Jun. 2017 – Mar. 2018

(Budget: 74.400,00 €)

ICCS –NTUA

May. 2016 – Jan. 2017

(Budget: 74.400,00 €)

THALES ALENIA SPACE, TAS-I

Apr. 2016 – Aug. 2016

(Budget: 50.000,00 €)

ICCS –NTUA

Jan. 2014 – May. 2015

(Budget: 74.400,00 €)

ICCS –NTUA

Dec. 2013 – Jul. 2015

(Budget: 50.000,00 €)

ICCS –NTUA

Apr. 2013 – Nov. 2015

(Budget: 700.000,00 €)

ICCS –NTUA

Apr. 2013 – Apr. 2018

(Budget: 100.000,00 €)

ICCS –NTUA

Sept. 2012 – Sept. 2015

(Budget: 80.000,00 €)

SENIOR RESEARCHER

FUNCTION TEST AND COMPATIBILITY STUDY FOR FISCAL SYSTEMS LAYOUT (ICCS PROJECT CODE: 62075700)
National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

STUDY OF HARMONIZATION OF TV CHANNELS IN THE FRAMEWORK OF ITS IMPLEMENTATION UNDER ARTICLE 9 - GREEK LAW N.3548/2007 (ICCS PROJECT CODE: 61073300)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

STUDY FOR SOFTWARE COMPLIANCE OF SPECIALIZED FISCAL MECHANISMS (NTUA PROJECT CODE: 62224100)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

DATA INTEGRITY AND VALIDATION EXPORTED FROM FISCAL MECHANISMS (NTUA PROJECT CODE: 62203000)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

SOFTWARE COMPATIBILITY STUDY OF FISCAL SYSTEMS ACCORDING TO THE TECHNICAL SPECIFICATION OF THE MINISTRY OF FINANCE (ICCS PROJECT CODE: 62069700)

National Technical University of Athens, School of Electrical & Computer Engineering, Wireless & Long-Distance Communication Lab.

SENIOR RESEARCHER

ICCS –NTUA

*May. 2008 – Apr. 2013
(Budget: 80.000,00 €)*

ICCS –NTUA

*Apr. 2008 – Aug. 2008
(Budget: 50.000,00 €)*

ELKE –NTUA

*May 2007 – Apr. 2012
(Budget.: 120.000,00 €)*

ELKE –NTUA

*Dec. 2005 – Nov. 2010
(Budget.: 120.000,00 €)*

ICCS –NTUA

*Jan. 2007 – Dec. 2011
(Budget: 90.000,00 €)*

PARTICIPATION IN WORKING GROUPS

APPROVAL AND SUITABILITY TAX MECHANISM COMMITTEE
Independent Authority for Public Revenue (IAPR)

REGULAR MEMBER

IAPR, Athens

June 2017 – June 2025

APPROVAL AND SUITABILITY TAX MECHANISM COMMITTEE
Ministry of Finance - General Secretariat of Tax & CUSTOMS Affairs / Directorate General for Taxation

ADVISORY MEMBER

GSIS, Athens

January 2011 – June 2017

SUBGROUP OF THE E-INVOICING COMMITTEE
Ministry of Finance - General Secretariat of Information Systems

ADVISORY MEMBER

GSIS, Athens

May 2016 – December. 2016

SUBGROUP FOR SECURITY AND APPLICATION SOFTWARE OF THE MONITORING COMMITTEE AND TECHNICAL SUPPORT FOR MONITORING INPUT - OUTPUT AT THE GAS STATIONS

Ministry of Development, Competitiveness, Infrastructure, Transport and Networks on the installation of integrated systems, base N.3784 / 2009 of JMD F2-1617/2012 and POL1009/12

REGULAR MEMBER

YME, Athens

September 2012 – October 2012

TASK FORCE WORKING IN THE MINISTRY OF FINANCE, TO PROVIDE THE NECESSARY TECHNICAL AND INSTITUTIONAL FRAMEWORK FOR THE ADAPTATION AND REVISION OF EXISTING STANDARDS OF FISCAL ELECTRONIC DEVICES (SENDING DATA SECURITY AND DATA ENCRYPTION ALGORITHMS - F.I.M.). A.Y.O. D6A14420EX2011EMP/27-5-2011.

Ministry of Finance - General Secretariat of Tax & CUSTOMS Affairs / Directorate General for Taxation. Code books& Elements, Address 15th. AVC: D6A 1119099 ON 13.9.2010.

REGULAR MEMBER

Ministry of Finance, Athens

June 2011 – August 2011

MEMBER OF THE WORKING GROUP ON EVALUATION UPDATE, SPECIALIZATION AND REVISION OF TECHNICAL SPECIFICATIONS TAX ELECTRONIC PROCESSES & SYSTEMS AND THEIR IMPLEMENTATION TO ENSURE FISCAL DATA.

Ministry of Finance - General Secretariat of Tax & CUSTOMS Affairs / Directorate General for Taxation. Code books& Elements, Address 15th. AVC: D6A 1119099 ON 13.9.2010.

REGULAR MEMBER

Ministry of Finance, Athens
September 2010 – December 2010

ACADEMIC / SERVICE ACTIVITIES

Reviewer in international peer reviewed journals

Scientific Reports
IEEE Transactions on Electromagnetic Compatibility
IEEE Transactions on Industrial Electronics
IEEE Access
IEEE Antennas & Wireless Propagation Letters (AWPL)
IEEE Communication Letters
IEEE Open Journal of Antennas and Propagation
Hindawi, Journal of Sensors
PIERS, Progress in Electromagnetics Research
Taylor & Francis, Journal of Electromagnetic Waves and Applications
IGI Global, Book
Energies, MDPI
Electronics, MDPI
Sustainability, MDPI
Applied Science, MDPI
Symmetry, MDPI
Materials, MDPI
Algorithms, MDPI
Sensors, MDPI
Micromachines, MDPI
PLOS ONE

Reviewer in international peer reviewed Conferences

2021 Joint IEEE International Symposium on Electromagnetic Compatibility, Signal & Power Integrity, EMC Europe

Assessor/ Evaluator in Testing Laboratories

Hellenic Accreditation System (ESYD)

2017 – present

Conference Chair/ Organizer

IEEE EEITE – International Conference on Electronics and Information Technology

2024, 2025

PROFESSIONAL AFFILIATIONS

Licensed Radioelectrologist Grade A'

YME, Athens
Jan. 2014

STUDENT SUPERVISION AND MENTORING

National Technical University of Athens

School of Electrical & Computer Engineering - Wireless & Long-Distance Communications Lab

Alexandros Bechrakis, Undergraduate Student <i>Title of Dissertation: Development and Assembly of Measurement Setup for DC and ELF Magnetic Behavior of SpaceWire Link</i>	2019 – 2020
Alexandra Mavropoulou, Undergraduate Student <i>Title of Dissertation: Development and Assembly of Measurement Setup for DC and ELF Magnetic Behavior of SpaceWire Link</i>	2019 – 2020
Areti Petsa, Undergraduate Student <i>Title of Dissertation: Assessments of SpaceWire Radiated Emissions</i>	2019 – 2020
Anargyros Baklezos, PhD Student <i>Title of Dissertation: Smart Antenna Systems and Applications in Modeling Electromagnetic Phenomena</i>	2014 – 2020
Grigorios Koutantos, PhD Student <i>Title of Dissertation: Modeling Electromagnetic Fields in Space Missions</i>	2016 – 2019
Panos Chronopoulos, Undergraduate Student <i>Title of dissertation: Image Theory in modeling ELF electric field</i>	2016 – 2017
Marios Despotidis, Undergraduate Student <i>Title of dissertation: Metamaterials in Antenna Design</i>	2016 – 2018
Victoria Athanasopoulou, Undergraduate Student <i>Title of dissertation: Development of passive antenna systems for sensing temperature changes using radiometry in ISM band</i>	2015 – 2018
Alexandros Georgopoulos, Undergraduate Student <i>Title of dissertation: High Power Microwave Antenna Study and Design</i>	2015 – 2016
Christos Pappas, Undergraduate Student <i>Title of dissertation: Interference fourth generation mobile services (LTE) in the ground digital TV.</i>	2014 – 2015
Adrianos Katsouris, Undergraduate Student <i>Title of dissertation: Rating radio coverage in wireless sensor systems</i>	2012 – 2013
George Thoma, Undergraduate Student <i>Title of dissertation: Study and simulation of the antenna factor in planar inverted F complex arrays (PIFAs).</i>	2011 – 2012
Marios Sazos, Undergraduate Student <i>Title of dissertation: Study and simulation of the antenna factor in planar inverted F complex arrays (PIFAs).</i>	2011 – 2012
Constantinos Stravoskoufis, Undergraduate Student <i>Title of dissertation: Study and simulation of the phenomenon of aspects or slots on the behavior of PIFA antenna characteristics and optimizations using genetic algorithms in the frequency of the standard DVB-T</i>	2011 – 2012

Hellenic Mediterranean University

School of Engineering, Department of Electronic Engineering – Telecommunication and Electromagnetic Application Lab.

In addition to the following list, I have participated as a co-supervisor in more than 50 BSc Diploma thesis and other 5 PhD Thesis.

Iskanter Bensenousi, Ph.D. Student <i>Title of dissertation: Model Fusion of Biomedical Data</i>	2022 – present
Eleni Veroni, Ph.D. Student <i>Title of dissertation: Human factors in Cybersecurity: Modelling human vulnerability</i>	2022 – present
Maria- Zoi Konidi, Ph.D. Student <i>Title of dissertation: AI/ML for the security in the social sciences and humanities</i>	2022 – present
Spyros Evaggelatos, Ph.D. Student <i>Title of dissertation: AI/ML for multi-modal biometric extraction and processing</i>	2022 – present
Panagiotis Mavridis, Ph.D. Student <i>Title of dissertation: Securing retail and wholesale transactions using Tax Electronic Mechanisms and EFTPOS and transmitting their data to a central server.</i>	2022 – present
Konstantinos Spyridakis, Ph.D. Student <i>Title of dissertation: Heuristic Algorithms and Artificial Intelligence on Inverse Electromagnetic Applications</i>	2024 -present

Ioannis Malakasis, Postgraduate Student (MSc) <i>Title of dissertation: Ferromagnetic Nanoparticles Characterization Techniques and its Magnetic Sensing Perspectives.</i>	20224 – 2025
Michalis Theodosoulis, Postgraduate Student (MSc) <i>Title of dissertation: Study of the Inverse Electromagnetic Problem based on the Cheetah Algorithm.</i>	2024-2025
Konstantinos Spyridakis, Postgraduate Student (MSc) <i>Title of dissertation: Comparative study of Heuristic Algorithms for Ferromagnetic Catalytic Nanoparticles.</i>	2023
Ioannis Aggelos Athanasiadis, Undergraduate Student <i>Title of dissertation: Monitoring high-traffic areas through magnetic field detection and computer vision techniques for public safety</i>	Ongoing
Antonios Skouradakis, Undergraduate Student <i>Title of dissertation: Monitoring high-traffic areas through magnetic field detection and computer vision techniques for public safety</i>	Ongoing
Andreas-Georgios Argyriou, Undergraduate Student <i>Title of dissertation: Study and Optimization of Wearable Antennas</i>	Ongoing
Vasilios Dimolakos, Undergraduate Student <i>Title of dissertation: Design and construction of a sensor for measuring electric and magnetic fields for electronic circuit measurements.</i>	Ongoing
Dimitrios Ouranidis, Undergraduate Student <i>Title of dissertation: Design and Simulation of an Antenna Array for Satellite Communications.</i>	Ongoing
Georgios Nikou, Undergraduate Student <i>Title of dissertation: Biomarkers and Applications in Health prevention and monitoring.</i>	Ongoing
Antonios Skouradakis & Ioannis Athanasiathis, Undergraduate Student <i>Title of dissertation: Monitoring of high-traffic areas through magnetic field detection and computer vision techniques for public safety.</i>	Ongoing
Aristedis Kariotakis, Undergraduate Student <i>Title of dissertation: Artificial Intelligence Applications in Engineering Education .</i>	Ongoing
Antonio Trpeski, Undergraduate Student <i>Title of dissertation: Detection Of Epileptic Pattern Using Graph-Based Neural Networks.</i>	2023-2024
Dimitrios Rigas-Papakonstantinou, Undergraduate Student <i>Title of dissertation: Design and modeling of a broadband antenna for High Power Microwave Pulses Applications.</i>	2024
Sofia Erga, Undergraduate Student <i>Title of dissertation: Electronic Invoicing and Applications in Greece.</i>	2024-2025
Stavros Katheris, Undergraduate Student <i>Title of dissertation: Hall sensor calibration via Fluxgate magnetometers.</i>	2022 – 2023
Christos Santis, Undergraduate Student <i>Title of dissertation: Hall sensor calibration via Fluxgate magnetometers.</i>	2022 – 2023
Spyridon Ligkos, Undergraduate Student <i>Title of dissertation: 5G and Hyman Health</i>	2020 – 2021
Emmanouil Xiradakis, Undergraduate Student <i>Title of dissertation: Study and Design of a Microstrip Patch Antenna with Modified Circular Geometry.</i>	2018 – 2019

National & Kapodistrian University of Athens

School of Sciences, Department of Physics – Microwaves and Optics Application Group.

TEACHING EXPERIENCE

Hellenic Mediterranean University

Assistant Professor for undergraduate level courses on

Sept. 2020– present

- Linear Algebra & Differential/ Integral Calculus
- Antennas & Wireless Links
- Electromagnetic Compatibility
- Data mining

Assistant Professor for postgraduate level (M.Sc) courses on

Sept. 2020– present

- Defense Technologies & Electromagnetic Compatibility

Adjunct Lecturer for undergraduate level courses on:

Sept. 2018– Sept. 2019

- Antennas & Wireless Links
- Microwaves and Millimeter Wave Technologies
- Radar Communications
- Digital Radio-telecommunication Systems
- Linear Algebra & Differential/ Integral Calculus
- Numerical Analysis and Implementation Environments

Sept. 2019– Sept. 2020

National Technical University of Athens

Jul. 2009 – March 2022

Teaching assistant for undergraduate level courses on:

- Antennas & Propagation
- Wireless Links

PROFESSIONAL DEVELOPMENT

Memberships

- IEEE Member (# 94184525)

Certifications

- Seminar - Installation and operation of the quality management system: Standard **EAOT EN ISO/IEC 17025: 2017** & quality management system of ESYD..
- Installation and operation of the quality management system according to the international standard **EN ISO 9001:2015, EN ISO 14001:2015**, general requirements above standard and special requirements for written documentation concerning the quality management system techniques to internal inspections.
- Installation and operation of the quality management system according to the international standard **EN ISO 9001:2008**, general requirements above standard and special requirements for written documentation concerning the quality management system techniques to internal inspections.

*ESYD
March 2018*

*EBETAM
June 2017*

*EBETAM
June 2010*