

Dr. Christos D. Nikolopoulos

Associate Professor • Electromagnetic Compatibility • Inverse Electromagnetics • Antennas • AI/ML

HELLENIC MEDITERRANEAN UNIVERSITY

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FOUNDATION FOR RESEARCH AND TECHNOLOGY – HELLAS (FORTH)

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PERSONAL SUMMARY

Academic and research leader with 18+ years of experience in electromagnetic compatibility (EMC), quasi-static electric/magnetic emissions, inverse electromagnetic problems, antenna design and propagation, space-system electromagnetic cleanliness, sensing, and machine-learning-enabled modelling. Current academic appointments include Associate Professor at HMU, Research Associate/ Principal Investigator at NTUA/ICCS, and affiliated faculty at FORTH. Supervises 6 PhD and 5 MSc students. Grant record exceeds €1.8M as PI and €2.5M as associate/senior investigator. Past positions include an EMC Consultant at EMTech SPACE P.C. to various projects of ESA's ITT.

PROFESSIONAL & RESEARCH EXPERIENCE

CURRENT & PRIOR APPOINTMENTS

Associate Professor, HMU | 2025–present

Collaborating Faculty, FORTH – Institute of Geoenergy | current

Research Associate, NTUA/ICCS – Wireless & Long-Distance Communications Lab. | 2008–present

Assistant Professor, HMU | 2020–2025

Senior EMC Engineer / Consultant, EMTech SPACE P.C. | 2016–2019

Adjunct Lecturer / Research Associate, HMU | 2018–2020

EDUCATION

• PhD, Electrical & Computer Engineering, NTUA, 2014 — Smart Antennas Technologies & Applications

• MEng, Telecom Engineering, National & Kapodistrian University of Athens, 2012

• BSc, Physics, National & Kapodistrian University of Athens, 2006

RESEARCH LEADERSHIP & EXPERTISE

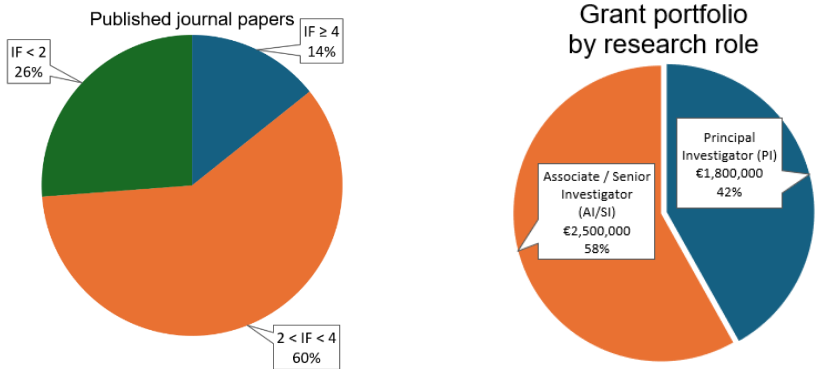
- Electromagnetic Compatibility (EMC/EMI) and electromagnetic cleanliness
- Inverse scattering / inverse electromagnetic source reconstruction
- Low-frequency electric & magnetic field measurement and modelling
- Antenna design, propagation, wearable and reconfigurable antennas
- Magnetic sensing of catalytic nanoparticles and operando measurements
- Machine learning, neural networks and heuristic optimization
- Space systems engineering; ESA-oriented EMC assessment

SELECTED RECOGNITION

- Multiple NTUA Thomaidion Awards for Scientific Publications (2011–2015)
- Postdoctoral grants: €190k ELIDEK; €45.5k NSRF
- NVIDIA GPU research grant

RESEARCH OUTPUT

Journal portfolio: 45 published journal papers plus 5 papers listed as accepted / major revision / under review. The IF pie below is an indicative grouping by the current impact factor of the publication venue; for formal evaluation, the exact Clarivate JCR year corresponding to each publication should be audited.



SELECTED RESEARCH & PROJECT LEADERSHIP

Grant scale. Grants >€1.8M generated as Principal Investigator and >€2.5M in grants as Associate/Senior Investigator. Selected recent and high-value projects include:

Project	Role	Period	Budget
DAGGER – Horizon Europe, FCT	Scientific Supervisor / PI	2026-2029	€3.367M consortium; €295.800k HMU
LOW FREQ. E-FIELD PRE-VERIFICATION METHOD – ESA ITT	Scientific Supervisor / PI	2026-2027	€600.00k consortium; €150.00k ICCS
ORION – Horizon Europe, Border Management	Scientific Supervisor / PI	2025-2028	€5.135M consortium; €202.675k HMU
POWERFLEX – European Defense Funding / flexible nanoelectronics	Scientific Supervisor / PI	2024-2026	€3.458M consortium; €62.000k HMU
Function & Operation Testing of Electronic Devices and Systems – ICCS/NTUA	Scientific Supervisor / PI	2017-2025	€1.411M ICCS
HFRI – Modelling Catalytic Nanoparticles via Magnetic Measurements & ML	Scientific Supervisor / PI	2023-2025	€188.915k HMU
Scientific & Technical Support on Analog/Digital Broadcasting	Scientific Supervisor / PI	2024-2026	€186k ICCS
Digital/FM Broadcasting Map & International RF Coordination	Scientific Supervisor / PI	2023-2024	€124k ICCS
THOR Electromagnetic Cleanliness – ESA ITT	Senior EMC Engineer / WP Manager	2016-2019	€700k ICCS
Multichannel Microwave Radiometry – Greece-China R&T	Senior Researcher / Coordinator	2013-2015	€700k ICCS

SELECTED PUBLICATION THEMES

Space EMC & electromagnetic cleanliness: IEEE Transactions on Electromagnetic Compatibility; IEEE Transactions on Aerospace and Electronic Systems; ESA/EMC conference papers.

Magnetic sensing & catalytic nanoparticles: IEEE Access and Applied Sciences publications on magnetic signatures, ferromagnetic nanoparticles, and sensing.

AI / machine learning: Neural-network field modelling, inverse dipole reconstruction, cybersecurity/disinformation modelling, and AI-controlled RIS.

Antennas & propagation: Reconfigurable, wearable, biomedical, UWB, PIFA, and scattering research across IEEE/IET and specialist journals.

ACADEMIC SUPERVISION & SERVICE

Supervision: 6 PhD students, 5 MSc students and numerous BSc students. Additional profile includes invited lectures, technical reports, working-group participation, research proposal development, and extensive collaboration with universities, public authorities, industry, and European/space-sector organizations. Reviewer services to numerous (>20) research journals.