

# Dr. Christos D. Nikolopoulos

NATIONAL TECHNICAL UNIVERSITY OF ATHENS

School of Electrical & Computing Engineering, 9 Iroon Polytechniou str., Zografou, Attica, Greece, GR- 15773

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HELLENIC MEDITERRANEAN UNIVERSITY

School of Engineering, Dept. of Electronic Engineering, 3 Romanou Str., Chalepa, Chania, Crete, Greece, GR-73133

✉ [cnikolo@hmu.gr](mailto:cnikolo@hmu.gr), [chris.d.nikolopoulos@gmail.com](mailto:chris.d.nikolopoulos@gmail.com) | 🌐 <http://hmu.gr/ee>



## PERSONAL SUMMARY

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I recently act as an Adjunct Lecturer 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. Moreover I act as a Managing Director in a Spin – off Company named EMC Solutions that I have recently established. Also I am an outsourcing 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 from space mission's equipment. 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.

## PROFESSIONAL & RESEARCH EXPERIENCE

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### Hellenic Mediterranean University

School of Engineering, Department of Electronic Engineering.

ADJUNCT LECTURER

*Crete, Greece*

*September 2018 — present*

### 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 — present*

### 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.)

General Topics in Technology Laboratories and Mobile Radio Communications

RF ENGINEER

*Athens, Greece*

*April 2004 – June 2004*

## EDUCATION

---

### National Technical University of Athens

School of Electrical and Computer Engineering

PH.D. IN ELECTRICAL & COMPUTER ENGINEERING

*Athens, Greece*

*March 2014*

Dissertation Title: "Smart Antennas Technologies & Applications"  
Thesis Advisor: Prof. C. N. Capsalis

## 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

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### Post Doc Research Grant

Research Proposal: Modeling Electromagnetic Emissions Of Space Equipment For Emc And Cleanliness Purposes (acting as Prime Investigator & Scientific Supervisor)

*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.

*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

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## Peer Reviewed Journal Articles

- [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 on CFRP Ground", in *IEEE Transactions on Aerospace and Electronic Systems*, 2019, 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 Antenna and Propagation*, IRECAP, vol.9, No 2, 2019.
- [J13] Nikolaos-Antonios Livanos, Sami Hammal, Christos D. Nikolopoulos, Anargyros T. Baklezos, Christos N. Capsalis, Grigorios Koulouras, Ioannis Vardiambasis, Athanassios Nasiopoulos, Spyros Kostopoulos, Pantelis Asvestas, Dionisis Cavouras and Elias 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, issue 6, 2017, 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

- [C12] C. D. Nikolopoulos, A. T. Baklezos, C. N. Capsalis, "A Novel Approach to Radiated Emissions Modeling of Low Voltage Differential Signal on SpaceWire Cable Employing Differential Evolution," *Photonics & Electromagnetics Research Symposium (PIERS 2019)*, ROME, 2019.
- [C11] E. G. Chatzineofytou, S. T. Spantideas, C. D. Nikolopoulos, A. T. Baklezos, D. Boschetti, I. Marziali, M. Nicoletto, C. N. Capsalis, "Decoupling of Ground Plane Effect on Low Frequency Magnetic and Electric Field Measurements & Modeling," *2019 ESA Workshop on Aerospace EMC (Aerospace EMC)*, Budapest, Hungary, 2019, pp. 1-6. doi: 10.23919/AeroEMC.2019.8788906
- [C10] C. N. Capsalis, C. D. Nikolopoulos, S. T. Spantideas, A. T. Baklezos, E. G. Chatzineofytou, G. I. Koutantos, D. Boschetti, I. Marziali, M. Nicoletto, S. Tsatalas, Klaus Mehlem, A. Junge, "EMC Assessment for Pre-Verification of THOR Mission Electromagnetic Cleanliness Approach," *2019 ESA Workshop on Aerospace EMC (Aerospace EMC)*, Budapest, Hungary, 2019, pp. 1-6. doi: 10.23919/AeroEMC.2019.8788958.

- [C9] A. T. Baklezos, C. D. Nikolopoulos, S. T. Spantideas, E. G. Chatzineofytou, D. Boschetti, I. Marziali, M. Nicoletto, C. N. Capsalis, "Steady State Emissions Modeling of Low Frequency Magnetic and Electric Fields Generated by GOCE CDMU," *2019 ESA Workshop on Aerospace EMC (Aerospace EMC)*, Budapest, Hungary, 2019, pp. 1-5. doi: 10.23919/AeroEMC.2019.8788927
- [C8] C. D. Nikolopoulos, A. T. Baklezos, C. N. Capsalis, "Measuring Transient And Steady State Electromagnetic Emissions of Space Equipment For Emc And Cleanliness Purposes," *ICHVE 2018 - 2018 IEEE International Conference on High Voltage Engineering and Application*, Athens, 10-13 Sept., 2018.
- [C7] S. Tsatalas, N-A. Livanos, S. T. Spantideas, C. N. Capsalis, S. Kakarakis, N. C. Kapsalis, C. D. Nikolopoulos, "An Innovative Multi-Magnetometer Facility for On-Ground Magnetic Measurements of Spacecraft Equipment," *7o Ordinary National Conference in Metrology*, Athens, 11-12 May 2018 (Greek title translated)
- [C6] A. T. Baklezos, C. D. Nikolopoulos, C. N. Capsalis, S. Tsatalas, "The effect of the code word length and Pulse Bitrate in measurements of radiated emissions for the SpaceWire Cable," *7o Ordinary National Conference in Metrology*, Athens, 11-12 May 2018 (Greek title translated)
- [C5] A. T. Baklezos, C. D. Nikolopoulos, C. N. Capsalis, S. Tsatalas, "Effect of LVDS Link Speed and Pattern Length on Spectrum Measurements of a SpaceWire Harness," *IEEE Int. Workshop on Antennas Technology (iWAT)*, pp. 38-41, Athens, 2017
- [C4] A.D. Savva, S.A. Kostopoulos, P.A. Asvestas, C.D. Nikolopoulos, C.N. Capsalis, and D.A. Cavouras, Breast Tumor Presence And Site Detection Employing Passive Microwave Radiometry Imaging, *6th Panhellenic Conference of Biomedical Engineering*, Athens, 6-8 May, 2015.
- [C3] S.A. Kostopoulos, A.D. Savva, P.A. Asvestas, C. D. Nikolopoulos, C.N. Capsalis and D.A. Cavouras, "Early breast cancer detection method based on a simulation study of single-channel passive microwave radiometry imaging" *4th International Conference on Mathematical Modeling in Physical Sciences*, June 5-8, 2015, Mykonos, Greece
- [C2] C. D. Nikolopoulos, K. D. Stravoskoufis and C. N. Capsalis, "A New Small and Low-Cost Wideband Pifa with Corrugations Based On Digital Dividend," *PIERS*, Aug.2012.
- [C1] 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.

## Books

- [B1] C. D. Nikolopoulos, "Electromagnetic Compatibility for Space Systems Design", Hershey, PA: Engineering Science Reference, IGI Global, 2018 (DOI: 10.4018/978-1-5225-5415-8)

## Editorial in Edited Volumes

- [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)

## Chapters in Edited Volumes

- [BC1] 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
- [BC2] C. D. Nikolopoulos, (2017) Extremely Low Frequency Electric Field Emissions for Space Applications: Measuring & Modeling Techniques In C. D. Nikolopoulos (Ed), *Electromagnetic Compatibility for Space Structure Design* (pp. 1-37), Hershey, PA: Engineering Science Reference, IGI Global, 2018. DOI: 10.4018/978-1-5225-5415-8.ch001

## Technical Reports

- [12] Stylianos Tsatalas, Christos D. Nikolopoulos, Sotirios Spantideas, Anargyros T. Baklezos, Elpida Chatzineofytou, Christos N. Capsalis, Pre-Verification of THOR Electro-Magnetic Cleanliness Approach AO/1-8574/16/NL/BW "DLV3401 – Validation Report (SVR)," 2018
- [11] Christos D. Nikolopoulos, Sotirios Spantideas, Anargyros T. Baklezos, Elpida Chatzineofytou, Christos N. Capsalis, Pre-Verification of THOR Electro-Magnetic Cleanliness Approach AO/1-8574/16/NL/BW "DLV\_3201\_Technical Note Algorithms for AC magnetic and ELF electric field emissions at equipment level," 2018
- [10] Christos D. Nikolopoulos, Stylianos Tsatalas, Anargyros T. Baklezos "Technical Note (PLATO-TAS-MAN-SOW-015) – System Support to Optical Bench Harness and Grounding Design – DLV2001 Modelling, Development & Validation Test Report (DIL-2)," 2016
- [9] Christos D. Nikolopoulos, Stylianos Tsatalas, "Technical Note (PLATO-TAS-MAN-SOW-015) – System Support to Optical Bench Harness and Grounding Design – DLV1001 Analysis Report (DIL-1)," 2016
- [8] Ioannis G. Tigelis, Christos D. Nikolopoulos, Anargyros T. Baklezos, "Technical Evaluation Report (Technical / Consulting Services for Investigation the Causes of Failure to Transmit Television Signal to Panhellenic Range Stations)," 2015

- [7] Christos D. Nikolopoulos, Anargyros Baklezos, Sarantis Kakarakis, Lazaros Pragiatis, Christos Capsalis, "Technical Note TN-4. 1- Single-channel MMR-IBTM Performance Evaluation Report," 2015
- [6] Christos D. Nikolopoulos, Anargyros Baklezos, Sarantis Kakarakis, Lazaros Pragiatis, Christos Capsalis, "Technical Note TN-3.2.1- Detailed Design for Radiometer Antenna," 2015
- [5] Christos D. Nikolopoulos, Anargyros Baklezos, Argiro Magkanioti, Lazaros Pragiatis, Terpsichori-Helen Velivasaki, Christos Capsalis, "Technical Note TN-2.2.3- Radiometer Antenna Proof of Concept," 2014
- [4] Christos D. Nikolopoulos, Anargyros Baklezos, Argiro Magkanioti, Lazaros Pragiatis, Terpsichori-Helen Velivasaki, Christos Capsalis, "Technical Note TN-2.2.2- Preliminary Radiometer Antenna Simulations," 2014
- [3] Christos D. Nikolopoulos, Anargyros Baklezos, Argiro Magkanioti, Lazaros Pragiatis, Terpsichori-Helen Velivasaki, Christos Capsalis, "Technical Note TN-2.2.1- Preliminary Design for Radiometer Antenna," 2014
- [2] Christos D. Nikolopoulos, Anargyros Baklezos, Argiro Magkanioti, Lazaros Pragiatis, Terpsichori-Helen Velivasaki, Christos Capsalis, "Technical Note TN-2.2.1- Preliminary Design for Radiometer Antenna," 2014
- [1] Argiro Magkanioti, Terpsichori-Helen Velivasaki, Lazaros Pragiatis, Christos D. Nikolopoulos, Christos Capsalis, "Technical Note TN-1.2-Specifications, Logical Design & Requirements for Antenna," 2013

## INVITED TALKS

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- [2] Christos D. Nikolopoulos, Special Applications in Electromagnetic Compatibility specialized in Space Missions, ELEC TEC Forum – Innovation in Greece, 23.02.2018, M.E.C Athens, Greece
- [1] Christos D. Nikolopoulos, Study and Modeling Electromagnetic fields in Space Missions, Wireless & Long Distance Communications Lab. – 100 Years of Education & Research in the edge of technology, School of Electrical and Computer Engineering of the NTUA (1917 – 2017), 27.11.2017, ONASSIS CULTURAL CENTER.

## PARTICIPATION IN NATIONAL/EUROPEAN PROJECTS

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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, Metamorfosi, Attiki, Greece  
SENIOR EMC ENGINEER (Key Personnel– WP Manager / Responsible for WP2300)

*European Space Agency*  
December 2016 – March 2019

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, Metamorfosi, Attiki, Greece  
SENIOR EMC ENGINEER (Proposal Author/ Key Personnel / Responsible for WP2000, WP3000)

*Thales Alenia Space - Italy*  
April 2016 – August 2016

Technical / Consulting Services for Investigation the Causes of Failure to Transmit Television  
Signal to Panhellenic Range Stations  
National & Kapodistrian University of Athens, Special Account for Research Grants (SARG) 6, Christou Lada Street  
10561 Athens  
RF ENGINEER

*Digea S.A.*  
June 2015 – July 2015

Technical consultant for updating FM radio frequency map and support to the relevant  
international frequency coordination  
Institute of Communication and Computer Systems, Patission 42, Athens, Greece – Ministry of Infrastructure,  
Transport and Networks  
RF ENGINEER

*YME*  
October 2014 – February 2015

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.  
Institute of Communication and Computer Systems, Patission 42, Athens, Greece – Ministry of Infrastructure,  
Transport and Networks  
RF ENGINEER

*YME*  
March 2015 – July 2015

EMC/EMI Measurement and Electromagnetic Interference between LTE and UMTS signals  
in Power Supplies and Monitoring Boxes for LTE base stations.

*RAYCAP S.A.*  
June 2014 - July 2014

## EMC CONSULTANT

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).

Institute of Communication and Computer Systems, Patission 42, Athens, Greece

RF ENGINEER (Proposal Author/ Key Personnel)

*National Strategic Reference Framework*

*October 2013 – November 2015*

Function test and interference with electronic tax mechanisms

National Technical University of Athens, School of Electrical & Computer Engineering, EMC Laboratory.

SENIOR EMC/ TESTING ENGINEER

*NTUA*

*March 2008 - Present*

Coordinator of the research project entitled "Study of Compliance and Compatibility Software treasury systems according to the specifications of the Ministry of Finance»

National Technical University of Athens, School of Electrical & Computer Engineering, EMC Laboratory

SENIOR EMC/ TESTING ENGINEER

*NTUA*

*March 2008 - Present*

## PARTICIPATION IN WORKING GROUPS

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Approval and Suitability Tax Mechanism Committee

Independent Authority for Public Revenue (IAPR)

REGULAR MEMBER

*IAPR, Athens*

*June 2017 – June 2019*

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

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Reviewer in international peer reviewed journals

IEEE, Antennas & Wireless Propagation Letters (AWPL)

IEEE Transactions on Industrial Electronics  
PIERS, Progress in Electromagnetics Research  
Taylor & Francis, Journal of Electromagnetic Waves and Applications  
IGI Global, Book

**Assessor/ Evaluator in Testing Laboratories**  
Hellenic Accreditation System (ESYD)

## PROFESSIONAL AFFILIATIONS

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Licensed Radioelectrologist Grade A'

2014

## STUDENT SUPERVISION AND MENTORING

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### National Technical University of Athens

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

Anargyros Baklezos, PhD Student	2014 – present
<i>Title of Dissertation: Smart Antenna Systems and Applications in Modeling Electromagnetic Phenomena</i>	
Grigorios Koutantos, PhD Student	2016 – present
<i>Title of Dissertation: Modeling Electromagnetic Fields in Space Missions</i>	
Panos Chronopoulos, Undergraduate Student	2016 – 2017
<i>Title of dissertation: Image Theory in modeling ELF electric field</i>	
Marios Despotidis, Undergraduate Student	2016 – 2018
<i>Title of dissertation: Metamaterials in Antenna Design</i>	
Victoria Athanasopoulou, Undergraduate Student	2015 – 2018
<i>Title of dissertation: Development of passive antenna systems for sensing temperature changes using radiometry in ISM band</i>	
Alexandros Georgopoulos, Undergraduate Student	2015 – 2016
<i>Title of dissertation: High Power Microwave Antenna Study and Design</i>	
Christos Pappas, Undergraduate Student	2014 – 2015
<i>Title of dissertation: Interference fourth generation mobile services (LTE) in the ground digital TV.</i>	
Adrianos Katsouris, Undergraduate Student	2012 – 2013
<i>Title of dissertation: Rating radio coverage in wireless sensor systems</i>	
George Thoma, Undergraduate Student	2011 – 2012
<i>Title of dissertation: Study and simulation of the antenna factor in planar inverted F complex arrays (PIFAs).</i>	
Marios Sazos, Undergraduate Student	2011 – 2012
<i>Title of dissertation: Study and simulation of the antenna factor in planar inverted F complex arrays (PIFAs).</i>	
Constantinos Stravoskoufis, Undergraduate Student	2011 – 2012
<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>	

### National & Kapodistrian University of Athens

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

Ilias Sigalas, Undergraduate Student	2018 – present
<i>Title of dissertation: Assessments of SpaceWire Radiated Emissions</i>	

## TEACHING EXPERIENCE

---

### Hellenic Mediterranean University

*Sept. 2018– Sept. 2020*

Adjunct Lecturer for undergraduate level courses on:

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

### National Technical University of Athens

*Jul. 2009 – March 2019*

Teaching assistant for undergraduate level courses on:

- Antennas & Propagation,
- Wireless Links.

## PROFESSIONAL DEVELOPMENT

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### 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*