

# HELLENIC MEDITERRANEAN UNIVERSITY



## CURRICULUM VITAE OF STRATAKIS DIMITRIOS

JANUARY 2026

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## PERSONAL INFORMATION



<b>SURNAME</b>	Stratakis
<b>NAME</b>	Dimitrios
<b>FATHER'S NAME</b>	Hippocrates
<b>PLACE OF BIRTH</b>	Heraklion, Crete
<b>MARITAL STATUS</b>	Married, three children
<b>WORK ADDRESS</b>	Department of Electrical and Computer Engineering, Polytechnic School, Hellenic Mediterranean University, Estavromenos, Heraklion, Crete, Greece, 71410
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## CURRENT POSITION

- **Professor**, Department of Electrical and Computer Engineering (ECE), School of Engineering, Hellenic Mediterranean University (HMU)
- (<https://ece.hmu.gr/en/faculty/stratakis-dimitrios/> <https://ece.hmu.gr/melh-d-e-p/dstrat/>), (<https://www.teicrete.gr/ie/el/dstrat> , <https://www.teicrete.gr/ie/en/dstrat> )

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## EDUCATION

- 24 Mar. 2011** **Doctoral Diploma, Ph.D.**, Polytechnic School, Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki.
- 9 Dec. 1992** **Diploma in Electronic Physics (Radioelectrology)**, Faculty of Sciences, School of Physics, Department of Postgraduate Studies (MSc) in Electronic Physics (Radioelectrology), Aristotle University of Thessaloniki.
- 7 Dec. 1992** **Diploma in Electrical Engineering.**, Polytechnic School, Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki
- 30 Sep. 1987** **Degree in Physics.** School of Physics, Aristotle University of Thessaloniki

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## Ph.D. AND DIPLOMA THESES TITLES

- 2006 - 2010** Elaboration of a Doctoral Thesis entitled “**MEASUREMENT AND ASSESSMENT OF ELECTROMAGNETIC FIELD UNCERTAINTY IN MODERN WIRELESS BROADCASTING SYSTEMS**” at the Department of Electrical and Computer Engineering of the Polytechnic School of the Aristotle University of Thessaloniki.
- 1990 – 1992** Postgraduate Department of Electronic Physics and Radio Electronics of AUTH. Thesis on: “**STUDY OF LOCK-IN TECHNIQUE FOR RECOVERY OF SIGNAL FROM NOISE**”.

1991 – 1992 Polytechnic School of AUTH. Department of Electrical Engineering. Department of Electronics and Computers. Thesis preparation on: “**STUDY OF MINIMIZATION OF LOGIC FUNCTIONS OF COMBINED CIRCUITS**” (Theoretical study and development of a corresponding program on a computer).

## PUBLICATIONS

### Publications in International Scientific Refereed Journals

1	M. G. Tampouratzis, G. Adamidis, D. Vouyioukas, <b>D. Stratakis</b> and T. Yioultsis, “ <i>Isotropic IoT-based Magnetic Flux Density Meter Implementation for ELF Field Measurements</i> ”, Special Issue: State-of-the-Art in Energy Harvesting for IoT and WSN, Applied Sciences, 13(23), 12730; 2023, <a href="https://doi.org/10.3390/app132312730">https://doi.org/10.3390/app132312730</a> .
2	Manolis G Tampouratzis, Demosthenes Vouyioukas, <b>Dimitrios Stratakis</b> , and Traianos Yioultsis, “ <i>Use Ultra-Wideband Discone Rectenna for Broadband RF Energy Harvesting Applications</i> ”, Multidisciplinary Digital Publishing Institute (MDPI), Vol. 8, no. 2, article 21, Apr. 2020.
3	E Drakakis, M Suche, V Tudose, G Kenanakis, <b>D Stratakis</b> , K Dangakis, A Miaoudakis, D Vernardou, E Koudoumas, “ <i>Zinc oxide-graphene based composite layers for electromagnetic interference shielding in the GHz frequency range</i> ”, Thin Solid Films, Vol. 651, pp. 152-157, Apr. 2018.
4	Simona Miclaus, Paul Bechet and <b>Dimitrios Stratakis</b> , “ <i>Exposure levels due to WLAN devices in indoor environments corrected by a time–amplitude factor of distribution of the quasi-stochastic signals</i> ”, Radiation Protection Dosimetry, Vol.162, no. 4, pp. 536-543, Dec. 2014.
5	<b>D. Stratakis</b> , A. Miaoudakis, V. Zacharopoulos and T. Xenos, “ <i>On the Spatial Averaging of Multiple Narrowband Electromagnetic Field Measurements. Methods and Uncertainty Estimation</i> ”, IEEE Transactions on Instrumentation and Measurements, Vol.59, no. 6, pp. 1520-1536, June 2010.
6	<b>D. Stratakis</b> , A. Miaoudakis, T. Xenos and V. Zacharopoulos, “ <i>Overall Uncertainty Estimation in Multiple Narrowband in Situ Electromagnetic Field Measurements</i> ”, IEEE Transaction on Instrumentation and Measurement, Vol.58, no. 8, pp. 2767-2779, August 2009.
7	A. Miaoudakis, <b>D. Stratakis</b> , E. Antonidakis, V. Zaharopoulos and R. Stojanovic, “ <i>Co-existence Performance Evaluation of Wireless Computer Networks in a Typical Office Environment</i> ”, Computer Science and Information Systems Journal, Vol.6, No. 1, pp. 169-184, June 2009.
8	<b>D. Stratakis</b> , A. Miaoudakis, C. Katsidis, V. Zacharopoulos and T. Xenos, “ <i>On the Uncertainty Estimation of Electromagnetic Field Measurements Using Field Sensors: A General Approach</i> ”, Radiation Protection Dosimetry, Vol. 133, no. 4, pp. 240–247, doi:10.1093/rpd/ncp050, April 2009.
9	<b>D. Stratakis</b> , A. Miaoudakis, T. Xenos and V. Zacharopoulos: “ <i>Electromagnetic Exposure Compliance Estimation Using Narrowband Directional Measurements</i> ”, Radiation Protection Dosimetry, Vol 130, no.3, pp. 331-336, doi:10.1093/rpd/ncn002, February 2008.
10	<b>D. Stratakis</b> , A. Miaoudakis, N. Farsaris, T. Xenos and V. Zacharopoulos: “ <i>Estimation of a partial transmitter contribution to the total</i>

<p><i>electromagnetic field exposure, in a multi-transmitter environment”, WSEAS Transactions on communications, Issue 5, Volume 6, pp 675-682, ISSN: 1109-2742, May 2007.</i></p>
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### Book chapters

- 1 Z. D. Zaharis, P. I. Lazaridis, C. Skeberis, G. Mastorakis, C. X. Mavromoustakis, E. Pallis, **D. I. Stratakis**, T. D. Xenos, **“Design and optimization of wideband log-periodic dipole arrays under requirements for high gain, high front-to-back ratio, optimal gain flatness and low side lobe level: The application of Invasive Weed Optimization”**, in the Book on “Wireless Network Performance Enhancement via Directional Antennas: Models, Protocols, and Systems”, Eds. John D. Matyjas, Fei Hu, Sunil Kumar, Taylor and Francis, 07 December, 2015.
- 2 C. X. Mavromoustakis, G. Mastorakis, A. Bourdena, E. Pallis, **D. Stratakis**, E. Perakakis, I. Kopanakis, S. Papadakis, Z. D. Zaharis, C. Skeberis, T. D. Xenos, **“A Social-oriented Mobile Cloud Scheme for Optimal Energy Conservation”**, in the Book on “Resource Management of Mobile Cloud Computing Networks and Environments”, Eds. George Mastorakis, Constandinos X. Mavromoustakis, Evangelos Pallis, IGI-GLOBAL, March 2015.
- 3 George Mastorakis, Constandinos X. Mavromoustakis, Athina Bourdena, Evangelos Pallis, Giorgio Sismanidis, **Dimitrios Stratakis**, Stelios Papadakis, **“Energy-Efficient Routing in Cognitive Radio Networks”**, Book Chapter, Editors: C.X. Mavromoustakis et al., *Resource Management in Mobile Computing Environments*, DOI: 10.1007/978-3-319-06704-9\_14, © Springer International Publishing Switzerland 2014.
- 4 **Dimitrios Stratakis**, Andreas Miaoudakis, Evangelos Pallis, Traianos Yioultsis, Thomas Xenos, George Mastorakis, and Constandinos X. Mavromoustakis, **“Measurements on Modern Wireless Communication Technologies and Estimation of Human Exposure”**, Book Chapter, Editors: C.X. Mavromoustakis et al., *Resource Management in Mobile Computing Environments*, Modeling and Optimization in Science and Technologies 3, DOI: 10.1007/978-3-319-06704-9\_5, © Springer International Publishing Switzerland 2014.
- 5 **D. I. Stratakis**, T. M. Papazoglou: **“Critical Factors in Load Forecasting for the Autonomous Electric Power System of Crete”**, Book Chapter, Editors: Spyros G. Tzafestas, in the book on “*Advances in Intelligent Systems: Concepts, Tools and Applications*”, Volume 21 of the series: International Series on Microprocessor-Based and Intelligent Systems Engineering, pp 515-526, DOI: 10.1007/978-94-011-4840-5\_46, Kluwer Academic Publishers, Netherlands, 1999.

### Publications – Announcements in International Scientific Refereed Conferences

1	<p>Manolis Tampouratzis, <b>Dimitrios Stratakis</b>, Demosthenes Vouyioukas, Traianos Yioultsis, Manolis Antonidakis <b>“RF Energy Harvesting from Ambient AM Radio Broadcasting Signals for Low-Power Applications”</b>, 2024 5th International Conference in Electronic Engineering, Information Technology &amp; Education (EEITE), IEEE, pp. 1-4, 2024. DOI: <a href="https://doi.org/10.1109/EEITE61750.2024.10654414">10.1109/EEITE61750.2024.10654414</a></p>
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2	Manolis G Tampouratzis, Nikolaos Plevritakis, Demosthenes Vouyioukas, Traianos Yioultsis, <b>Dimitrios Stratakis</b> , “ <i>Storage Efficiency Optimization in Capacitor-based Energy Harvesting Systems</i> ”, 2023 International Conference on Control, Artificial Intelligence, Robotics & Optimization (ICCAIRO), IEEE, pp. 115-117, Ierapetra, Crete, Greece, 11 <sup>th</sup> - 13 <sup>th</sup> , April 2023. <b>DOI:</b> <a href="https://doi.org/10.1109/ICCAIRO58903.2023.00026">10.1109/ICCAIRO58903.2023.00026</a>
3	M. G. Tampouratzis, G. Adamidis, D. Vouyioukas, T. Yioultsis, <b>D. Stratakis</b> , “ <i>IoT-based ELF Magnetic Flux Density Meter</i> ”, 2023 International Conference on Control, Artificial Intelligence, Robotics & Optimization (ICCAIRO), IEEE, pp. 7-10, Ierapetra, Crete, Greece, 11 <sup>th</sup> - 13 <sup>th</sup> , April 2023. <b>DOI:</b> <a href="https://doi.org/10.1109/ICCAIRO58903.2023.00010">10.1109/ICCAIRO58903.2023.00010</a>
4	Manolis G. Tampouratzis, Evangelos Katsos, Demosthenes Vouyioukas, <b>Dimitrios Stratakis</b> , and Traianos Yioultsis, “ <i>Design of Planar CPW-Fed UWB Trapezoidal Monopole Antennas with Band Rejection Characteristics</i> ”, Proceedings of the 26th International Conference on Circuits, Systems, Communications and Computers (CSCC), Chania, Crete Island, Greece, 19-22 July, 2022. <b>DOI:</b> <a href="https://doi.org/10.1109/CSCC55931.2022.00049">10.1109/CSCC55931.2022.00049</a>
5	M. Pavec, T.N. Kapetanakis, C.D. Nikolopoulos, A. Baklezos, D. Moravcova, R. Soukup, T. Blecha, A. Hamacek, <b>D. Stratakis</b> , J. Chatzakis, M.P. Ioannidou, and I.O. Vardiambasis, “ <i>Development of all-textile antennas for the ISM band</i> ”, Proceedings of the 2nd International Symposium in Electronic Engineering, Information Technology and Education (EEITE 2020), pp. 57-61, ISBN: 978-618-84774-3-8, Chania, Crete, Greece, 12-14 Oct 2020.
6	M. G. Tampouratzis, D. Vouyioukas and <b>D. I. Stratakis</b> , “ <i>Discone Rectenna Implementation for Broadband RF Energy Harvesting</i> ”, International Conference on Modern Circuits and Systems Technologies (MOCASST), Thessaloniki, Greece, 2019, pp. 1-4, <b>DOI:</b> <a href="https://doi.org/10.1109/MOCASST.2019.8741639">10.1109/MOCASST.2019.8741639</a> .
7	Robert Helbet, Andrei Cristian Bechet, <b>Dimitrios Stratakis</b> , Paul Bechet, Simona Miclaus, “ <i>An Analysis of the Spatial-Temporal Variability of the Near Field Components in the Proximity of a TETRA Portable Terminal</i> ”, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), pp. 0149-0153, Iasi, Romania, 18-19 Oct. 2018.
8	Christos Skeberis, Zaharias Zaharis, Thomas Xenos, Spyridon Spatalas, <b>Dimitrios Stratakis</b> , Roberto Colella, and Pier Francesco Biagi, “ <i>Evaluation of disturbances detected on a VLF/LF receiver of earthquakes with similar characteristics in different points in time</i> ”, 20th EGU General Assembly, EGU2018, Proceedings from the conference held 4-13 April, 2018 in Vienna, Austria, p.4176, 04/2018.
9	Pier Francesco Biagi, Roberto Colella, Luigi Schiavulli, Anita Ermini, Mohammed Boudjada, Hans Eichelberger, Konstantinos Katzis, Manana Kachakhidze, Michael Contadakis, Christos Skeberis, <b>Dimitrios Stratakis</b> , Iren Moldovan, and Hugo Silva, “ <i>Pre-seismic radio anomalies observed on the occasion of the Mw= 6.7 and Mw = 5.0 earthquakes occurred offshore near the southwest coast of Turkey on July-August, 2017</i> ”, 20th EGU General Assembly, EGU2018, Proceedings from the conference held 4-13 April, 2018 in Vienna, Austria, p.1349, 04/2018.

10	Pier Francesco Biagi, Roberto Colella, Luigi Schiavulli, Anita Ermini, Mohammed Boudjada, Hans Eichelberger, Konstantinos Katzis, Manana Kachakhidze, Michael Contadakis, Christos Skeberis, <b>Dimitrios Stratakis</b> , Iren Moldovan, and Hugo Silva, <i>“Possible pre-seismic radio anomalies observed on the occasion of the MW=5.9 and MW=6.5 earthquakes occurred in Central Italy at the end of October 2016”</i> , 20th EGU General Assembly, EGU2018, Proceedings from the conference held 4-13 April, 2018 in Vienna, Austria, p.1018, 04/2018.
11	Christos Skeberis, Zaharias Zaharis, Thomas Xenos, Spyridon Spatalas, <b>Dimitrios Stratakis</b> , Tommaso Maggipinto, Roberto Colella, and Pier Francesco Biagi, <i>“Evaluation of disturbances detected on a VLF/LF receiver inside the preparation zone of a sequence of earthquakes”</i> , 19th EGU General Assembly, EGU2017, proceedings from the conference held 23-28 April, 2017 in Vienna, Austria., p.2961, 04/2017.
12	Prokopios M. Bormpantonakis, <b>Dimitrios I. Stratakis</b> , George N. Mastorakis, Constandinos X. Mavromoustakis, Christos N. Skeberis, Paul V. Bechet, <i>“Exposure EMF Measurements with Spectrum Analyzers Using Free and Open Source Software”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2016, Heraklion, Crete, Greece, 25 - 27 July, 2016.
13	Kalliopi G. Pantelaki, <b>Dimitrios I. Stratakis</b> , Evangelos M. Pallis, Simona G. Miclaus, Zaharias D. Zaharis, Thomas D. Xenos, <i>“Radar Measurements with Remote Control Software”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2016, Heraklion, Crete, Greece, 25 - 27 July, 2016.
14	Zaharias D. Zaharis, Traianos V. Yioultsis, Christos Skeberis, Thomas D. Xenos, Pavlos I. Lazaridis, <b>Dimitrios I. Stratakis</b> , Evangelos Pallis, <i>“Near Optimal Synthesis of Exponential Log-Periodic Dipole Array Geometry by Applying Invasive Weed Optimization”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2016, Heraklion, Crete, Greece, 25 - 27 July, 2016.
15	Vasos Hadjioannou, Constantinos X. Mavromoustakis, George Mastorakis, Evangelos Pallis, <b>Dimitrios Stratakis</b> , Dimitra Valavani, <i>“On the Performance Comparison of the Agent-based Rate Adaptivity Scheme for IEEE 802.11n and ZigBee”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2016, Heraklion, Crete, Greece, 25 - 27 July, 2016.
16	Christos Skeberis, Zaharias Zaharis, Thomas Xenos, Spyridon Spatalas, <b>Dimitrios Stratakis</b> , Tommaso Maggipinto, and Pier francesco Biagi, <i>“A multiple receiver - multiple transmitter VLF high-order differential analysis evaluation network for near real-time detection and discrimination of seismic-ionospheric precursor phenomena”</i> , EGU General Assembly 2016, held 17-22 April, 2016 in Vienna Austria, id. EPSC2016-2828, 04/2016.
17	Christos Skeberis, Zaharias Zaharis, Thomas Xenos, Michael Contadakis ), <b>Dimitrios Stratakis</b> , Maggipinto Tommaso, and Pier Francesco Biagi, <i>“Application of differential analysis of VLF signals for seismic-ionospheric precursor detection from multiple receivers”</i> , EGU General Assembly 2015, held 12-17 April, 2015 in Vienna, Austria. id.3936, 04/2015.
18	Mavromoustakis, C. X., A. Andreou, G. Mastorakis, S. Papadakis, A. Bourdena, and <b>D. Stratakis</b> , <i>“Energy Consumption Optimization through</i>

	<i>Pre-scheduled Opportunistic Offloading in Wireless Devices</i> ”, In EMERGING 2014, The Sixth International Conference on Emerging Network Intelligence, pp. 22-28. 2014.
19	Paul Bechet, Simona Miclaus, <b>Dimitrios Stratakis</b> , Andreas Miaoudakis, <i>“Electromagnetic field strength distribution in Wi-Fi signals covered areas: An experimental analysis of the variables that influence the exposure levels”</i> , International Conference and Exposition on Electrical and Power Engineering (EPE), 2014.
20	Zaharias D Zaharis, Christos Skeberis, Pavlos Lazaridis, <b>Dimitrios Stratakis</b> and Thomas Xenos, <i>“IWO-based Synthesis of Log-Periodic Dipole Array”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2014, Heraklion, Crete, Greece, 28-30 July, 2014.
21	Christos Skeberis, Zaharias D Zaharis, <b>Dimitrios Stratakis</b> and Thomas Xenos, <i>“ZAM Distribution Analysis of Radiowave Ionospheric Propagation Interference Measurements”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2014, Heraklion, Crete, Greece, 28-30 July, 2014.
22	<b>Dimitrios Stratakis</b> , A. Miaoudakis, George Mastorakis, Evangelos Pallis, Thomas Xenos, Traianos Yioultsis and Constandinos Mavromoustakis, <i>“Noise Reduction for Accurate Power Measurements of Low Level Signals”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2014, Heraklion, Crete, Greece, 28-30 July, 2014.
23	Simona Miclaus, Paul Bechet and <b>Dimitrios Stratakis</b> , <i>“Realistic exposure levels due to WLAN signals in indoor environments: experimental outcomes from currently applied methodologies”</i> , EHE2014 - 5th International Conference on Electromagnetic Fields, Health and Environment - Oporto, Portugal - 24-26 May, 2014.
24	<b>D. Stratakis</b> , A. Miaoudakis, T. Yioultsis and T. Xenos, <i>“Evaluation of the Electromagnetic Fields Exposure Produced by WiMAX Signals”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2012, Heraklion, Crete, Greece, July 30 – August 1, 2012.
25	A. Miaoudakis, <b>D. Stratakis</b> , T. Xenos and V. Zacharopoulos, <i>“Estimating Maximum Exposure near GSM Systems”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU2010, Heraklion, Crete, Greece, July 2010.
26	A. Miaoudakis, <b>D. Stratakis</b> , T. Xenos and V. Zacharopoulos, <i>“Human Electromagnetic Exposure Compliance to Radar Systems”</i> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU2010, Heraklion, Crete, Greece, July 2010.
27	A. Miaoudakis, V. Zacharopoulos, <b>D. Stratakis</b> and E. Antonidakis, <i>“Self-powering wireless sensors in typical building environment”</i> , Globecom Workshops, 2007 IEEE, pp 1-8, ISBN: 978-1-4244-2024-7, 26-30 Nov., 2007.
28	A. Miaoudakis, V. Zacharopoulos, <b>D.Stratakis</b> , E. Antonidakis, <i>“Information tapping-proof distance of wireless networks due to radiation and a secure cellular telephone by design”</i> , Proceedings of International Forensic Science & Forensic Medicine Conference, November 2007.

29	<b>D. Stratakis</b> , A. Miaoudakis, N. Farsaris, T. Xenos and V. Zacharopoulos, <b>“Measuring Non-Ionizing Electromagnetic Fields from a Specific Direction”</b> . Proceedings of the 6 <sup>th</sup> WSEAS International Conference on Electronics, Hardware, Wireless and Optical Communications (EHAC 2007), pp. 12-17, ISSN: 1790-5117, ISBN: 978-960-8457-59-1, Corfu Island, Greece, February 16-19, 2007.
30	<b>D. Stratakis</b> , T. Xenos, T. Yioultsis, V. Zacharopoulos, N. Farsaris, V. I. Zacharopoulou and C. Katsidis, <b>“Automation in Electromagnetic Field Measurements”</b> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2006, ISBN: 960-88785-2-7, Heraklion, Crete, Greece, 5-7 July 2006.
31	N. Farsaris, <b>D. Stratakis</b> , A. Miaoudakis, E. Pallis, T. Xenos and V. Zacharopoulos, <b>“Airborne Digital Video Transmission Techniques in L/S Bands”</b> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2006, ISBN: 960-88785-2-7, Heraklion, Crete, Greece, 5-7 July 2006.
32	N. Farsaris, <b>D. Stratakis</b> , A. Miaoudakis, V. Zacharopoulos and T. Xenos, <b>“Operability Aspects of a Transmitter – Independent Receiver Network Against Radar and Communication Jamming”</b> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2006, ISBN: 960-88785-2-7, Heraklion, Crete, Greece, 5-7 July 2006.
33	<b>Δ. Στρατάκης</b> , Ν. Φαρσάρης, Β. Ζαχαρόπουλος, Θ. Ξένος, Π. Φραγκοπούλου και Σ. Αποστολάκης, <b>“Μετρήσεις Ηλεκτρομαγνητικών Πεδίων από 30MHz ως 2700MHz στην Ανατολική Κρήτη”</b> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2005, ISBN: 960-88785-1-9, Heraklion, Crete, Greece, 23-26 June 2005.
34	Ν. Φαρσάρης, <b>Δ. Στρατάκης</b> , Π. Παπαδήμας, Β. Ζαχαρόπουλος, Θ. Ξένος, Π. Φραγκοπούλου και Σ. Αποστολάκης, <b>“Μεθοδολογία Μετρήσεων Ηλεκτρομαγνητικών Πεδίων Εξαιρετικά Χαμηλών Συχνοτήτων”</b> , Proceedings of the International Conference on Telecommunications & Multimedia, TEMU 2005, ISBN: 960-88785-1-9, Heraklion, Crete, Greece, 23-26 June 2005.
35	<b>Δ.Ι. Στρατάκης</b> , Θ.Μ. Παπάζογλου, <b>“Μελέτη βραχυπρόθεσμης πρόβλεψης ηλεκτρικού φορτίου για το Σ.Η.Ε. Κρήτης”</b> , Πρακτικά της Συνόδου «Αθήνα 2002» της Ελληνικής Επιτροπής του Διεθνούς Συμβουλίου Μεγάλων Ηλεκτρικών Δικτύων, σελ. 187-196, Ε.Ε. CIGRE, Αθήνα, 11-12 Απριλίου 2002.
36	<b>D. I. Stratakis</b> , T. M. Papazoglou, <b>“Forecasting Yearly and Daily Load Demand for the Autonomous Electric Power System of Crete”</b> , Proc. of the 36th Universities Power Engineering Conference (UPEC '01), University of Wales, Swansea, 12-14 September, 2001.
37	<b>D.I. Stratakis</b> and T.M. Papazoglou, <b>“Data Base Information from the EPS of Crete and a Model for Short Term Load Forecasting”</b> , Proc. of the 34th Universities Power Engineering Conference, UPEC 1999.
38	C. C. Neocleous, T. M. Papazoglou, C. N. Schizas, <b>D. I. Stratakis</b> , <b>“Sensitivity Analysis of a Neural Network used for the Forecasting of Electric Power Load”</b> , Proc. of the 34th Universities Power Engineering Conference (UPEC '99), vol.1, pp. 225-228, Sept. 1999.
39	<b>D.I. Stratakis</b> and T.M. Papazoglou: <b>“Critical Factors in Load Forecasting for the Autonomous EPS of Crete”</b> , EURISSCON '98, The third European

Robotics, Intelligent System and Control Conference, Athens, Greece, 22-25 June, 1998.
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## **PARTICIPATION IN THE ORGANISATION OF INTERNATIONAL SCIENTIFIC CONFERENCES**

- 2016** International Conference in Telecommunications and Multimedia TEMU2016, <http://www.temu.gr/2016>, Heraklion, Crete, Greece, 25 - 27 July, 2016.
- 2014** International Conference in Telecommunications and Multimedia TEMU2014, <http://www.temu.gr/2014>, Heraklion, Crete, Greece, 28-30 July, 2014.
- 2012** International Conference in Telecommunications and Multimedia TEMU2012, <http://www.temu.gr/2012>, Heraklion, Crete, Greece, July 30- August 1, 2012.
- 2012** 8<sup>th</sup> INTERNATIONAL WORKSHOP OF ELECTROMAGNETIC COMPATIBILITY CEM 2012, Sibiu – Romania, 27 September – 29 September 2012, [http://www.icpe-ca.ro/ro/cem2012\\_372](http://www.icpe-ca.ro/ro/cem2012_372).
- 2010** International Conference in Telecommunications and Multimedia TEMU2010, <http://www.temu.gr/2010/>, Chania, Crete, Greece, 14-16 July 2010.
- 2008** International Conference in Telecommunications and Multimedia TEMU2008, <http://www.temu.gr/2008/>, Ierapetra, Crete, Greece, 16-18 July 2008.
- 2005** International Conference in Telecommunications and Multimedia TEMU2005, <http://www.temu.gr/2005/>, Heraklion, Crete, Greece, 23-26 June 2005.

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## **PARTICIPATION IN TUTORIAL OF INTERNATIONAL SCIENTIFIC CONFERENCES**

Participation in the Tutorial: “**Tutorial on Instrumentation, Measurements and Bio-effects of Non-ionizing Electromagnetic Fields (IMBiNEF)**” of the International Scientific Conference: International Conference in Telecommunications and Multimedia TEMU2008, <http://www.temu.gr/2008/>, Ierapetra, Crete, Greece, 16-18 July 2008.

Speech entitled: “**Development of procedures of processing narrowband non-ionizing radiofrequency electromagnetic field measurement data**”.

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## **PARTICIPATION IN DOCTORAL DISSERTATIONS COMMITTEES**

### **Doctoral dissertations in progress:**

PhD Candidate: Tambouratzis Manolis

Institution: University of the Aegean, Department of Information & Communication Systems Engineering

Doctoral Thesis Topic: “Study, Design & Implementation of Electronic Devices for efficient energy harvesting by radio frequencies”.

Three-member examination committee (Decision 16th / 18-06-2018):

1. Vougioukas Demosthenes, Professor, Department of Information & Communication Systems Engineering,
  2. Stratakis Dimitrios, Associate Professor, Department of Electrical and Computer Engineering, Hellenic Mediterranean University,
  3. Gioultsis Traianos, Professor, Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki.
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## **POSTGRADUATE (MSc) THESIS SUPERVISION**

### **A. Completed:**

Supervisor of three (3) completed Master Thesis, MSc in Informatics & Multimedia, Department of Informatics Engineering, TEI of Crete.

1. Graduate: Borbandonakis Prokopios. Master thesis title: "Exposure EMF measurements with spectrum analyzer using free and open source software", (<https://apothesis.lib.teicrete.gr/handle/11713/8370>).
2. Graduate: Pantelaki Kalliopi. Master thesis title: "Study of electromagnetic field measurement methodology of pulsed rotating high-power signals", (<https://apothesis.lib.teicrete.gr/handle/11713/7932>).
3. Graduate: Golemis Alexandros. Master thesis title: "Modeling of the measurement procedure for the determination of exposure to electromagnetic fields from wireless local area networks (WLAN) operating in different scenarios in 2.4 GHz band", (<https://apothesis.lib.teicrete.gr/handle/11713/3797>).
4. Graduate: Tambouratzis Manolis. Master Thesis Title: "Design & Implementation of Broadband Micro Tape Flat Antennas for Radio Frequency Energy Harvesting Applications".

### **B. In progress:**

Supervisor of two (2) in progress Thesis, MSc in Informatics & Multimedia, Department of Informatics Engineering, TEI of Crete.

1. Postgraduate student: Dokimakis Stylianos  
Master thesis title: "Study of methodologies for taking broadband electromagnetic field measurements and processing the respective measurement data".
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## **SUPERVISION OF DIPLOMA THESES OF THE DEPARTMENT OF ELECTRICAL ENGINEERING**

Complete:

Student: ECE: Psaroudakis Nikolaos

Diploma Thesis Title: "Study of electromagnetic shielding and development of software for the characterization of electromagnetic shielding of various materials"

(<https://apothesis.hmu.gr/items/fab2fc41-721b-4db3-a336-54e325eeba7c>).

## **UNDERGRADUATE DIPLOMA THESIS SUPERVISION**

Supervisor of thirty three (33) completed theses at the Department of Informatics Engineering and in nine (9) completed theses at the Department of Electrical Engineering of the TEI of Crete.

**Titles of completed theses under my supervision at the Department of Informatics  
Engineering of the TEI of Crete**

**A. Theses posted electronically at Apothesis, Institutional Repository of the Library  
of TEI Crete.**

<https://apothesis.lib.teicrete.gr/handle/11713/1/browse?type=advisorName&value=%CE%A3%CF%84%CF%81%CE%B1%CF%84%CE%AC%CE%BA%CE%B7%CF%82%2C+%CE%94%CE%B7%CE%BC%CE%AE%CF%84%CF%81%CE%B9%CE%BF%CF%82>

<b>A/A</b>	<b>Title</b>
<b>1</b>	Development of an application for measuring electromagnetic fields of digital TV signal transmitting stations by a portable spectrum analyzer. <a href="https://apothesis.lib.teicrete.gr/handle/11713/7680">https://apothesis.lib.teicrete.gr/handle/11713/7680</a>
<b>2</b>	Development of an application for measuring the electromagnetic fields of FM transmitter stations by a portable spectrum analyzer. <a href="https://apothesis.lib.teicrete.gr/handle/11713/7701">https://apothesis.lib.teicrete.gr/handle/11713/7701</a>
<b>3</b>	Development of an application for measuring electromagnetic fields of GSM base stations by a portable spectrum analyzer. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3734">https://apothesis.lib.teicrete.gr/handle/11713/3734</a>
<b>4</b>	Development of Radar electromagnetic field measurement software using MatLab. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3767">https://apothesis.lib.teicrete.gr/handle/11713/3767</a>
<b>5</b>	Study of 4th generation communication networks. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3694">https://apothesis.lib.teicrete.gr/handle/11713/3694</a>
<b>6</b>	Development of an application for measuring electromagnetic fields of 3rd generation mobile base stations by a portable spectrum analyzer. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3211">https://apothesis.lib.teicrete.gr/handle/11713/3211</a>
<b>7</b>	Electric and magnetic field measurement procedures from VDTs (Video Display Terminals). <a href="https://apothesis.lib.teicrete.gr/handle/11713/3207">https://apothesis.lib.teicrete.gr/handle/11713/3207</a>
<b>8</b>	Development of methodology and corresponding software for the study of radio broadcasts of mobile base stations antennas. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3831">https://apothesis.lib.teicrete.gr/handle/11713/3831</a>
<b>9</b>	Determination of exposure from electromagnetic fields of digital television base stations DVB-T. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3446">https://apothesis.lib.teicrete.gr/handle/11713/3446</a>
<b>10</b>	Determination of exposure from electromagnetic fields of WiMAX base stations. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3466">https://apothesis.lib.teicrete.gr/handle/11713/3466</a>
<b>11</b>	Wired home networking. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3550">https://apothesis.lib.teicrete.gr/handle/11713/3550</a>
<b>12</b>	Study for the installation of an autonomous mobile base station. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3569">https://apothesis.lib.teicrete.gr/handle/11713/3569</a>
<b>13</b>	Construction of a three-dimensional model of the building complex of the city of Heraklion for telecommunication applications. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3524">https://apothesis.lib.teicrete.gr/handle/11713/3524</a>
<b>14</b>	Development of software for taking and processing measurements from the fieldmeter of the electromagnetic radiation laboratory. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3515">https://apothesis.lib.teicrete.gr/handle/11713/3515</a>
<b>15</b>	Voice transfer over data networks. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3600">https://apothesis.lib.teicrete.gr/handle/11713/3600</a>
<b>16</b>	WCDMA network optimization. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3597">https://apothesis.lib.teicrete.gr/handle/11713/3597</a>

17	Expansion and improvement of a website of a laboratory for measuring electromagnetic radiation and development of appropriate databases of information and measurements on it. <a href="https://apothesis.lib.teicrete.gr/handle/11713/3282">https://apothesis.lib.teicrete.gr/handle/11713/3282</a>
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**B. Theses that are not electronically posted on Apothesis**

A/A	Title
1	Study of the physical level of modern wireless communication technologies. Students: Petrougakis Emmanouil, Volyrakis Antonios, 2013.
2	Development of methodology and corresponding software for obtaining basic measurements required to check the proper operation of mobile base stations. Student: Spyridakis Evangelos, 2012.
3	Analysis of fiber optic technology and fiber optic networks. Students: Vakintis Ioannis, Gypris Emmanouil, 2011.
4	Development of software for estimating error and uncertainty in measurements of electromagnetic field magnitudes. Student: Koutsoupis Ioannis, 2007.
5	Use MatLab for the development of control software for the spectrum analyzer of the Electromagnetic Radiation Laboratory. Students: Spirili Evanthia, Panagiotti Elsona, 2007.
6	Wireless home networking. Student: Zacharia Ioanna, 2007.
7	Development of spectrum analyzer operating software of the electromagnetic radiation measurement laboratory. Student: Maziotis Akis, 2006.
8	Study of electromagnetic spectrum and determination of the levels of exposure to electromagnetic radiation in the area of TEI of Heraklion. Student: Kontizas Lykourgos, 2006.

**Titles of completed theses under my supervision at the Department of Electrical Engineering of the TEI of Crete**

A/A	Title
1	Development of software for the implementation of a static model for load forecasting of electricity in Crete. Student: Hairis Athanasios, 2003.
2	Development of software for the implementation of a dynamic model for load forecasting of electricity in Crete. Student: George Britzolakis, 2002.
3	Methods for forecasting electricity demand. Student: Kaioglou George, 2002.
4	Load demand analysis by consumers of the electrical power system of Crete. Students: Lemonakis Fragkias, Koutantos Charalambos, 2000.
5	Analysis of the electricity transmission and distribution system of Crete. Students: George Kornelakis, Ioannis Spantidakis, 2000.
6	Analysis of the electricity production system in Crete. Students: Pitsis Hippocrates, Theodosiou Christos, 2000.
7	Influence of climatic factors on the production and demand of electricity in Crete, and formation of an appropriate database of climatic variables. Students: Voltatzis Iordanis, Makarounas Nikolaos, 2000.
8	Analysis of the electricity system of Skyros island. Student: Michalis Dimitrios, 1999.
9	Electrical study of hotel 'LATO'. Student: Dallas George, 1998.

**SUPERVISION OF STUDENT PRACTICE**

Supervisor of more than one hundred and seventy (170) internships of students of the Department of Informatics Engineering of the TEI of Crete.

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## **PARTICIPATION IN INTERLABORATORY COMPARATIVE MEASUREMENTS**

1. Participation in the '**Interlaboratory Comparative Measurements of High Frequency Electromagnetic Fields**' organized by the Hellenic Atomic Energy Committee, Athens, February 2010.
2. Participation in the '**Interlaboratory Comparative Measurements of extremely low frequency electric and magnetic fields**' organized by the Hellenic Atomic Energy Commission in collaboration with the NTUA High Voltage Laboratory, Athens, February 2013.

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## **SOCIAL WORK: PARTICIPATION IN WORKSHOPS, EXHIBITIONS, SPEECHES, INTERVIEWS**

From 2004 until today, participation in more than 70 events at the invitation of the competent bodies (Municipalities, Cultural Associations, Union of Greek Physicists, TEI of Crete Events, Parents' Associations, Schools, etc.), on measurements and effects of electromagnetic fields in the area of low frequencies and radio frequencies.

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## **REVIEWER IN INTERNATIONAL SCIENTIFIC JOURNALS AND CONFERENCES**

- |                         |  |
|-------------------------|--|
| <b>2021-2022</b>        | Reviewer at different International open access scientific Journals of Multidisciplinary Digital Publishing Institute (MDPI).                  |
| <b>2012, 2014, 2016</b> | Reviewer at International Scientific Conferences “International Conference in Telecommunications and Multimedia TEMU2012, TEMU2014, TEMU2016”. |
| <b>2008-2014</b>        | Reviewer at the International Scientific Journal “IEEE Transactions on Instrumentation and Measurement”.                                       |
| <b>2009-2010</b>        | Reviewer at the International Scientific Journal “Radiation Measurements Journal (Elsevier Science)”.  |

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## **PARTICIPATION IN RESEARCH PROJECTS**

### **1. Implementing Agency: Special Research Fund Account of the TEI of Crete/Hellenic Mediterranean University**

#### **A. As scientific coordinator:**

<b>A/A</b>	<b>Duration</b>	<b>Project Title</b>
<b>1</b>	<b>21/03/2012 - Today</b>	<b>Non-Ionizing Radiation Laboratory</b>

2	01/03/2012 to 30/09/2015	“Development of technical measurements of electric field intensity for the evaluation of the electromagnetic charge and its reliability during the operation of modern wireless communications systems (ANTENA)”, ARCHIMEDES III, Support of Research Teams at the TEI of Crete, Subproject 22
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**B. As deputy scientific coordinator:**

A/A	Duration	Project Title
1	21/12/2004 to 20/03/2012	“Non-Ionizing Radiation Laboratory”

**C. As associate researcher:**

A/A	Duration	Project Title
1	October 2018 to June 2022	“Nanostructured composite paints for electronics electromagnetic shielding”, NATO Emerging Security Challenges Division, SPS Programme, (project code: G5477)
1	30/09/2020 to June 2022	“Normal farming bases in open sea environments at the presence of Electromagnetic fields” (project code: T6YBII-00317), which is implemented in the framework of the National Action: Special Actions 'Aquaculture' - 'Industrial Materials' - 'Open Innovation in Culture' of the OP. 'Competitiveness, Entrepreneurship and Innovation' (EPANEK) 2014-2020 and is co-financed by the European Regional Development Fund (ERDF).
2	05/10/2018 to 27/06/2021	“Polymeric nanocomposites with electromagnetic shielding properties” in the framework of the Unified Action of State Aid for Research, Technological Development & Innovation 'RESEARCH - CREATE - INNOVATE' of the OP. 'Competitiveness, Entrepreneurship and Innovation' (EPANEK) 2014 - 2020
3	15/01/2014 to 31/12/2016	“T-NOVA – ICT-FP7-619520 - Network Functions as-a-Service over Virtualised Infrastructures”
4	01/09/2015 to 28/02/2018	“EMYNOS — nExt generation eMergencY commuNicatiOnS”
7	01/11/2013 to 31/10/2015	“Internship for students of TEI of Crete”
8	01/09/2012 to 31/10/2015	“Optimal Utilization of Available Resources and Integrated Management of Users/Services in Terrestrial Digital Interactive Broadcast Infrastructures, to Provide Audiovisual Content of Guaranteed Quality to Citizens of Less Developed' Areas (VELLEREFONTIS)”, ARCHIMEDES III, Support for Research Teams at the TEI of Crete, Subproject 34
9	01/09/2012 to 30/11/2015	“Development and characterization of innovative nanostructured coatings suitable for electromagnetic shielding in the GHz region”, ARCHIMEDES III, Support for Research Teams at the TEI of Crete, Subproject 26

10	01/10/2010 to 31/03/2013	“Internship for students of TEI of Crete”
12	01/02/2008 to 30/09/2008	“Internship for students of TEI of Crete – Phase C”
13	12/10/2006 to 31/08/2008	“Support for Informatics Studies of the Department of Applied Informatics and Multimedia”
15	02/01/2007 to 30/06/2007	“Liaison Office of the TEI of Crete”
17	01/06/2006 to 31/12/2007	“Internship for students of TEI of Crete - Phase C- Department of Applied Informatics and Multimedia”
18	01/07/2005 to 30/06/2007	“Study of coexistence of wireless networks of 802.11 technology and Bluetooth in a typical office environment and recording of electromagnetic radiation coming from these wireless networks”, ARCHIMEDES II, Support for Research Teams of the TEI of Crete, Subproject 9
19	23/06/2005 to 30/06/2007	“Measurements - evaluation of the emission of extremely low frequency electromagnetic fields (ELF) of the high voltage transmission lines of Crete and of the power density of electromagnetic fields in the frequency range from 30 MHz to 3GHZ of the antenna parks of Crete (EPIRITIS)”, ARCHIMEDES II, ENVIRONMENT, Support of Research Teams of the TEI of Crete, Subproject 2
20	05/02/2005 to 31/12/2005	“Training of Teachers in the Utilization of Information and Communication Technologies (ICT) in Education”
21	21/11/2003 to 31/08/2005	“Support for Informatics Studies of the Department of Applied Informatics and Multimedia at the TEI of Crete”
22	01/03/2003 to 31/08/2003	“Expansion of Higher Education, New Department of Applied Informatics and Multimedia”
23	08/07/1998 to 31/12/1998	“BRITE EURAM II”

## 2. Implementing agency: Center for Technological Research of Crete (CTR-C)

A/A	Duration	Project Title
1	16/12/2004 to today	Deputy Scientific Coordinator of the project entitled: “Measurement of Electromagnetic Radiation”. Responsible for electromagnetic field measurements and preparation of measurement reports, which are carried out at the request of the interested parties. During the project, a variety of electromagnetic field measurements have been carried out for individuals,

		companies, associations, and various other bodies in the area of Crete.
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### ADMINISTRATIVE ACTIVITIES

Duration	Position
21/03/2012 - Today	<b>Scientific Coordinator</b> of the Non-Ionizing Radiation Laboratory (NIRL) of the ECE Department of HMU. Responsible for Measurements and development of measurement automation software and measurement data processing.
16/12/2004 - Today	<b>Deputy Scientific Coordinator of the program “Measurement of Electromagnetic Radiation” of the Center for Technological Research of Crete (CTR-C).</b>
14/03/2012 - Today	<b>Deputy Scientific Coordinator</b> of the Laboratory of Research and Development of Telecommunication Systems (PASIPHAE) of the Department of Informatics Engineering of the TEI of Crete/Hellenic Mediterranean University.
2012 - Today	<b>Member of the Research Laboratory of Multimedia, Networks and Communications</b> of the ECE Department of HMU ( <a href="https://www.teicrete.gr/el/tei/14499">https://www.teicrete.gr/el/tei/14499</a> ) and <b>Scientific Coordinator of the Electromagnetic Applications team of the Laboratory</b> dealing with electromagnetic compatibility, scattering, propagation and radiation of electromagnetic waves, electromagnetic applications and electromagnetic transmissions and measurements of electromagnetic, radar and microwave applications.
21/12/2004 to 20/03/2012	<b>Deputy Scientific Coordinator</b> of the Laboratory of Non-Ionizing Radiation (NIRL) of the Department of Informatics Engineering of TEI Of Crete. Responsible for Measurements and development of measurement automation software and measurement data processing.
2003 - Today	<b>Participation in Committees:</b> <ul style="list-style-type: none"> <li>• Participation in more than twenty-five (25) committees for the Evaluation of Calls for Expressions of Interest and Competitions, <u>of Special Research Fund Account of the TEI of Crete/Hellenic Mediterranean University,</u></li> <li>• Participation in more than ten (10) committees for materials and equipment receipt, <u>of Special Research Fund Account of the TEI of Crete/Hellenic Mediterranean University,</u></li> <li>• Participation in more than five (5) Committees <u>of the TEI of Crete with various duties,</u></li> <li>• Participation in more than ten (10) committees <u>of the Department of Computer Engineering of TEI of Crete and of the Department of Electrical and Computer Engineering of Hellenic Mediterranean University, Crete, Greece, with various duties.</u></li> </ul>

## AUTHOR WORK

### **AUTHOR WORK AT THE DEPARTMENT OF COMPUTER ENGINEERING OF THE TEI OF CRETE**

- 2004** Writing notes on the theory and laboratory exercises of the course “Mobile and Personal Communication Networks”.
- 2004** Writing notes and laboratory exercises adapted to the NEC4WIN95VM platform for the Laboratory of the course “Transmission Structures”.
- 2004** Writing notes and laboratory exercises adapted to laboratory boards for the Laboratory of the course “Introduction to Telecommunications”.
- 2005** Writing notes and laboratory exercises for the Laboratory of the course “Digital Communications”.
- 2005** Writing notes and laboratory exercises for the Laboratory of the course “Telecommunications Regulations and Standards”.
- 2005** Writing notes for the theory of the course “Telecommunications Regulations and Standards”.
- 2005** Writing notes on the theory of the course “Digital Communications”.
- 2011** Development of presentations for the theory of the course “Transmission Structures”.
- 2011** Writing notes for the theory of the course “Mobile and Personal Communication Networks”.
- 2011** Adaptation of theory notes and writing of new laboratory exercises adapted to the MatLab platform for the theory and laboratory of the course “Digital Communications”.
- 2011** Adaptation of theory notes and writing of new laboratory exercises adapted to the MatLab platform for the theory and laboratory of the course “Introduction to Telecommunications”.
- 2013** Writing notes and laboratory exercises adapted to the MatLab platform, for the theory and laboratory of the course “Advanced Topics in Antennas and Wireless Propagation and Measurements”, of the Postgraduate Department “MSc in Informatics & Multimedia” of the Department of Informatics Engineering of TEI of Crete.
- 2017** Adaptation of notes and writing new laboratory exercises adapted to the Python platform, for the theory and laboratory of the course “Advanced Topics in Antennas and Wireless Propagation and Measurements”, of the Postgraduate department “MSc in Informatics & Multimedia” of the Department of Informatics Engineering of TEI of Crete.
- 2017** Adaptation of theory notes and laboratory exercises for the theory and laboratory of the course “Mobile and Personal Communication Networks”. (<https://eclass.hmu.gr/courses/TP269>)
- 2017** Adaptation of theory notes and writing new laboratory exercises adapted to the Python platform for the theory and laboratory of the course “Introduction to Telecommunications”. (<https://eclass.hmu.gr/courses/TP145>)
- 2018** Adaptation of theory notes and writing new laboratory exercises adapted to the Python platform for the theory and laboratory of the course “Digital Communications”. (<https://eclass.hmu.gr/courses/TP244>)

- 2018 Adaptation of theory presentations and writing of new laboratory exercises adapted to the MMANA-GAL platform for the theory and laboratory of the course “Transmission Structures”.  
(<https://eclass.hmu.gr/courses/TP312>)
- 2019 Adaptation of notes and laboratory exercises for the theory and laboratory of the course “Advanced Topics in Antennas, Propagation of EMF fields, and Wireless Networks”, of the Postgraduate department “MSc in Informatics & Multimedia” of the department of Informatics Engineering of TEI of Crete.  
(<https://eclass.hmu.gr/courses/TP275>)
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**AUTHOR WORK IN THE DEPARTMENT OF ELECTRICAL  
ENGINEERING OF THE SCHOOL OF TECHNOLOGICAL  
APPLICATIONS OF TEI CRETE**

- 1996 Writing notes entitled “Earthing - Measures, Means and Ways of Protection against Electric Shock” for the course 'Electrical Installations II' of the Department of Electrical Engineering of the TEI of Crete.
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**TEACHING EXPERIENCE**

**A) DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING  
OF THE HELLENIC MEDITERRANEAN UNIVERSITY**

**December 2019 until today** Associate Professor from 27-12-2019 until today at the Department of Electrical and Computer Engineering (ECE) of the Hellenic Mediterranean University (HMU).

**Academic/Scientific director and lecturer of the following theoretical courses:**

Introduction to telecommunications,  
Transmission structures,  
Mobile and personal communication networks,  
Digital communications.

**Academic/Scientific director and lecturer of the following laboratory courses:**

Introduction to telecommunications,  
Transmission structures,  
Mobile and personal communication networks,  
Digital communications.

**B) DEPARTMENT OF INFORMATICS ENGINEERING, TEI OF CRETE**

**July 2011 to December 2019** Assistant Professor from 1-7-2011 to 27-12-2019 at the Department of Informatics Engineering (former Department of Applied Informatics and Multimedia) of the School of Technological Applications of the TEI of Crete).

**Academic/Scientific director and lecturer of the following theoretical courses:**

Introduction to telecommunications,  
Transmission structures,  
Mobile and personal communication networks,  
Digital communications.

**Academic/Scientific director and lecturer of the following laboratory courses:**

Introduction to telecommunications,  
Transmission structures,  
Mobile and personal communication networks,  
Digital communications.

**December  
2002 to June  
2011**

**Lecturer** from December 2002 to 30-6-2011 at the Department of Informatics Engineering (former Department of Applied Informatics and Multimedia) of the School of Technological Applications of the TEI of Crete.

**Academic/Scientific director and lecturer of the following laboratory courses:**

Introduction to telecommunications,  
Transmission structures,  
Mobile and personal communication networks,  
Digital communications.

**C) POSTGRADUATE COURSES IN “MSC IN INFORMATICS ENGINEERING”**

- 2019 - today** Co-teaching with the Professor of the ECE department Dr. Palli Evangelo of the course (theory - laboratory): “**Advanced Topics in Antennas, Propagation of EMF fields, and Wireless Networks**”, at the Postgraduate program “MSc in Informatics Engineering” of the Department of Electrical and Computer Engineering of Hellenic Mediterranean University.
- 2013 – 2018** Teaching of the course (theory - laboratory): “**Advanced Topics in Antennas and Wireless Propagation and Measurements**”, at the Postgraduate program “MSc in Informatics Engineering” of the Department of Informatics Engineering of the School of Technological Applications of the TEI of Crete.

**D) DEPARTMENT OF ELECTRICAL ENGINEERING, TEI OF CRETE,**

- 1996 – 2002** Hourly paid professor (Research Fellow) at the Department of Electrical Engineering of the School of Technological Applications of the TEI of Crete.

**Lecturer of the following courses:**

Electrotechnical Applications II (Theory),  
Electrotechnical Applications II (Laboratory)  
Electrical Installations II (Theory)

**1994 - 1996** Hourly paid professor (Assistant Professor) in the Department of Electrical Engineering of the School of Technological Applications of the TEI of Crete.

**Lecturer of the following courses:**

Electrotechnical Applications II (Theory),  
Electrotechnical Applications II (Laboratory)

**E) VOCATIONAL TRAINING INSTITUTE (IEK) OF HERAKLION**

**1993 - 1997** Hourly paid professor at the Public IEK of Heraklion.

**Lecturer of the following courses:**

Data Collection and Transfer,  
Data Communications and Networks,  
Electronics Laboratories,  
Computer Networks,  
Computer Architecture and Operating Systems,  
Use of Local Area Networks,  
Indoor Electrical Installations,  
Power Electronics.

**F) PRIVATE INSTITUTE “PRACTICE” OF VOCATIONAL TRAINING**

**1995 - 1996** Hourly Teacher at the Private IEK “PRACTICE” of Heraklion.

**Lecturer of the following courses:**

Communications - Networks,  
Use of Local Area Networks.

**G) HIGH-SCHOOL LEVEL**

**1997 -  
December  
2002** Permanent Teacher of PE12 direction (Electrical Engineering) in the former Technical Vocational High School and in the 1st Technical Vocational School of Arkalochori, Crete, Greece. Teaching courses and laboratories in Electrical and Electronic direction.

**Activities - Positions:**

- School year 2001 - 2002: Deputy Director at the 1st Technical Vocational School of Arkalochori, Crete, Greece,
- School year 2000 - 2001: Head of the Department of Electrical Engineering, Agriculture - Food and Environment, Economy - Administration and Aesthetics - Hairdressing at the 1st Technical Vocational School of Arkalochori, Crete, Greece,
- School year 1999 - 2000: Deputy Director at the 1st Technical Vocational School of Arkalochori, Crete, Greece,
- School year 1998 - 1999: Deputy Director acting as Director at the 1st Technical Vocational School of Arkalochori, Crete, Greece,
- School year 1997 - 1998: Head of Laboratories of the Department of Electrical Applications at Technical Vocational High School of Arkalochori, Crete, Greece.

- 1996 - 1997** Deputy Teacher at Technical Vocational High School of Arkalochori, Crete, Greece. Teaching courses and laboratories of Electrical and Electronic nature.
- 1995 - 1996** Hourly paid teacher at the 7th High School of Heraklion and at the High School of Kastelli Pediados, Crete, Greece. Teaching the course of “Technology”.

### PROFESSIONAL SERVICE

- 1993 – 1997** Freelance Profession of **Electrical Engineer** with the subject of **Electromechanical Studies, Supervision and Constructions** from 19-3-1993 to 5-9-1997, date of appointment in secondary education as a permanent teacher.

### SEMINARS

- 2011** Participation in a seminar on “Measurements of Human Exposure to RF Electromagnetic Fields with the SRM 3000/3006”.
- 1996** Attendance of IT Training Seminar of Foundation for Research & Technology of Heraklion on “Winsock Applications for Internet Use” (F.T.P., Archie, Gopher, Telnet, E-Mail, Talk, WWW, HTML).

### PARTICIPATION IN ELECTROMAGNETIC FIELD MEASUREMENTS

Since 2004, the year of establishment of the Laboratory of Non-Ionizing Radiation (NIRL) have been carried out under my supervision a variety of measurements of Low Frequency Electromagnetic Fields (ELF) and Radio Frequency Electromagnetic Fields (RF) at the request of stakeholders (Associations, Individuals, Municipalities, Mobile Telephony Companies) to the Special Research Fund Account of the TEI of Crete/Hellenic Mediterranean University or to the Center for Technological Research of Crete (CTR-C). These measurements are made according to international measurement standards and are followed by an extensive report of measurements and estimation of uncertainty and of the maximum possible values of electromagnetic fields at the measurement places, drafted in accordance with Greek Legislation.

In the measurements and the compilation of the reports, as well as in the maintenance of the measurement equipment and in the development of software for taking and processing of measurements, I have been responsible since the establishment of the NIRL laboratory (2004).

### ADDITIONAL KNOWLEDGE

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|-------------------------|---|
| <b>FOREIGN LANGUAGE</b> | Very good English (Lower of Cambridge).   |
| <b>COMPUTERS</b>        | Microsoft Windows, Office,<br>· Visual Basic,<br>· MatLab, Python,<br>· Antenna simulation software (π.χ. NEC4WIN95VM, MMANA-GAL) |

**TELECOMMUNICATIONS** Four-month employment (Internship - 1989) in the Radio Electrical laboratories of OTE, Thessaloniki. Acquisition of practical and theoretical knowledge for: Antennas, Microwaves, Configuration methods, Telecommunication systems.

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**ADDITIVES**

**Participation in the research staff and programs of the Center for Technological Research of Crete (CTR-C)**

**Member of Technical Chamber of Greece (TEE), Member of the Union of Greek Physicists.**

**License to practice the Profession of Radio Electrician A'.**

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