Dr. Grigorios E. Koulouras, Associate Professor

Research Laboratory of Telecommunications, Signal Processing and Intelligent Systems (TelSiP) Department of Electrical and Electronic Engineering, University of West Attica Ancient Olive Grove University Campus, 250 Thivon Str., GR-12241, Egaleo, Athens, Greece Email: gregkoul@uniwa.gr

Curriculum Vitae

General Information

Dr. Grigorios E. Koulouras was born in Athens, Greece, in 1978. He received his B.Sc. degree in Electrical & Electronic Engineering from the Technological Educational Institute of Athens, Greece, in 1999. He got his M.Sc. degree in Data Communication Systems from the Department of Electronic and Computer Engineering, Brunel University, U.K., in 2001. Meanwhile, he completed his compulsory military service as an Electronic Engineer in the Department of Electronic War of the Hellenic Army. In 2003, he received scholarship for Ph.D. from the State Scholarship Foundation and joined School of Engineering and Design, Brunel University, UK, for pursuing a Ph.D. degree under the supervision of Prof. John Stonham. In 2008 he obtained his Ph.D. from Brunel University. In 2010, he joined the Department of Electronic Engineering of the Technological Educational Institute of Athens. He is currently working as an Associate Professor in the Department of Electrical and Electronic Engineering of University of West Attica. He is also co-founder of the "Telecommunications, Signal Processing and Intelligent Systems Research Laboratory (TelSiP)".

Dr. Grigorios E. Koulouras has extensive research, academic and professional experience that lie in three fields. The first one is in electronic circuits design, microcontrollers, Embedded Systems, flash memories and Data Acquisition Systems. The second one focuses on IoT, Cloud Computing, virtualization, containerization and dockerization technologies, as well as on the automated management of virtual or non-virtual computer systems by the use of open source CM (Configuration Management) tools (i.e. Ansible). Finally, the third one deals with Telecommunications and in particular with the design of high-speed fiber optic and wireless networks. From 2007 to 2010 he worked for the Hellenic Telecommunications Organisation (O.T.E. S.A.) at the Department of Network Technologies as staff of the sub-department, which develops the cable infrastructure (both copper and fiber optics). He was responsible for the design, validation and acceptance of the backbone fiber optics network.

Dr. Grigorios E. Koulouras has supervised or is currently supervising more than 50 postgraduate and undergraduate theses, while he has an extensive teaching experience in the context of postgraduate and undergraduate taught courses focused on Embedded Systems, IoT and Cloud Computing. His published work includes more than 55 papers in international scientific conference proceedings, edited volumes, scientific journals and book chapters and also his research work has been cited more than <u>1800 times</u> (https://goo.gl/3mca62) in the scientific literature according to Google Scholar search engine. He has served as a guest editor and reviewer for international scientific conference proceedings and scientific journals. He has also served as a principal investigator or researcher in several research programs. Dr. Grigorios E. Koulouras served the Hellenic Telecommunications & Post Commission (EETT) for 4 years as a Member of its Plenary from January 2018 to January 2022.

Education

2003 – 2007:	Doctor of Philosophy – School of Engineering and Design – Electrical Engineering & Electronics Research – Brunel
	University – Middlesex – UK
	PhD Title: "A Versatile Data Acquisition System for Capturing Electromagnetic Emissions in VHF Band."
	(Hellenic NARIC Degree Recognition Number: 8-3049)
2000 – 2001:	Master of Science in Data Communication Systems – Department of Electronic and Computer Engineering – Brunel
	University – Middlesex – UK
	(Hellenic NARIC Degree Recognition Number: 8-1664)
1995 – 1999:	Bachelor of Science – Department of Electronic Engineering – Technological Educational Institution of Athens – GR

Academic Appointments

04/2021 – Present: Associate Professor – University of West Attica, Department of Electrical and Electronic Engineering 03/2018 – 04/2021: Assistant Professor – University of West Attica, Department of Electrical and Electronic Engineering 07/2016 – 03/2018: Assistant Professor – Technological Educational Institute of Athens, Department of Electronic Engineering 10/2010 – 06/2016: Lecturer – Technological Educational Institute of Athens, Department of Electronic Engineering

Additional Scientific Appointments

01/2018 - 01/2022: Member of the Plenary of the Hellenic Telecommunications & Post Commission (EETT)

Dr. Grigorios E. Koulouras served the Hellenic Telecommunications & Post Commission (EETT) for 4 years as a Member of its Plenary from January 2018 to January 2022 (Official Greek Government Gazette 7/YO $\Delta\Delta$ /11-01-2018). During this period he participated in more than 100 plenary sessions and dealt with more than 2000 issues on the agendas of his responsibilities. In addition to EETT's ad-hoc Hearing Committees, he participates in Permanent Hearing Committees (Official Greek Government Gazette 159/YO $\Delta\Delta$ /21-03-2018) aimed at speeding up the Authority's audit work:

(A) Member of the Standing Committee on Hearings on Radio Equipment and Radio Links.

- (B) Member of the Standing Committee on Hearings on Domain Names.
- (C) Alternate Member of the Standing Committee on Hearings on Antenna Construction.
- (D) Alternate Member of the Standing Committee on Multimedia Information Hearings.

According to the Official Greek Government Gazette 5567/B/12-12-2018, he also participates in Permanent Hearing Committees dealing with Postal Issues:

- (A) Member of the Standing Committee on Hearings on Audits Carried out in Postal Businesses.
- (B) Alternate Member of the Standing Committee on Repeat Hearings on Postal Issues.

By the Decision 34449/29-11-2019 of the President of EETT on "Designation of the Integrated Project Team Leader" and other roles for each program co-financed by the NSRF 2014-2020 and EETT, Dr. Koulouras appointed Head of the Project Management Team (IPT Leader) of the Program "Radio Frequency Spectrum Management System with Embedded Electronic Request Platform (RFSMS)", MIS 5029669.

Other Professional Appointments

03/2007 – 09/2010: Electronic Engineer at the O.T.E. S.A.. Staff of the Design and Cable Infrastructure (both copper and fiber optics) subdepartment – Department of Network Technology (Responsible for the design, validation and acceptance of the backbone fiber optics network)

- 03/2005 02/2007: Electronic Engineer at the Geodynamic Institute of the National Observatory of Athens (Responsible for the technical maintenance and for monitoring the national seismic activity)
- 05/2000 12/2000: System Operator of Greek Data Network HellasCom (Administration Data Network HellasCom with NMS Software)

Honors and awards

- Three and half (3½) years scholarship from the State Scholarships Institution, for pursuing Ph.D. degree at Brunel University.
- Scholarship from the State Scholarships Institution for the performance excellence during my course at the Technological Educational Institute of Athens, Department of Electronic Engineering, in all academic years.

Language Skills

- Greek (Mother language)
- English

Research Grants

Research Grants	
11/2021 – 11/2023:	Research – Create – Innovate, Greek General Secretariat of Research and Technology
	Project: «Development of a novel model predictive control method for sewage treatment plants aiming at optimizing
	performance and minimizing energy consumption»
	Coordinator: Prof. Alex Alexandridis (Department of Electrical and Electronic Engineering – University of West Attica)
	Research Team: Telecommunications, Signal Processing and Intelligent Systems Research Laboratory (TelSiP)
	Funded: National Strategic Reference Framework (NSRF) 2014-2020
	Project budget of TelSiP: 202.591,75 €.
	Total project budget: 997.059,75 €.
	Implementation Period: 30/11/2021 – 29/11/2023
10/2018 – 10/2021:	Research – Create – Innovate, Greek General Secretariat of Research and Technology
	Project: «i-React, Next Generation»
	Consortium: • EMTech (Greece)
	 TELSIP – University of West Attica (Greece)
	Coordinator: Prof. Alex Alexandridis (Department of Electrical and Electronic Engineering – University of West Attica)
	Research Team: Telecommunications, Signal Processing and Intelligent Systems Research Laboratory (TelSiP)
	Funded: National Strategic Reference Framework (NSRF) 2014-2020
	Project budget of TelSiP: 163.960,85 €.
	Project budget of EMTech: 297.500,00 €.
	Total project budget: 461.460,85 €.
	Implementation Period: 17/10/2018 – 16/10/2021
04/2013 - 09/2015:	Bilateral Collaboration in Research and Technology between Greece and China
	Project: «Multi-channel Microwave Radiometry for Internal Body Temperature Measurements»
	Consortium: • EMTech (Greece)
	• TELSIP – TEI of Athens (Greece)
	• MEDISP – TEI of Athens (Greece)
	• WLDCL – NTUA (Greece)
	Beijing Guoke Huayi Technology Company Limited (China)
	Coordinator: Prof. Nassiopoulos Athanasios (Department of Electronic Engineering – TEI of Athens)
	Research Team: Telecommunications and Signal Processing Research Laboratory (TelSiP) – TEl of Athens
	Funded: EUROPEAN REGIONAL DEVELOPMENT FUND
	Total project budget: 441.438,75 €.
	Implementation Period: 01/04/2013 – 30/09/2015
12/2011 – 01/2014:	
12/2011 01/2014.	Project: «Services for virtual laboratories - TEI of Athens»
	Sub-project: «Development of added-value services for virtual laboratories»
	Coordinator: Dr. Founta Ifigenia (Assistant Professor – Department of Informatics – TEI of Athens)
	Research Team: Telecommunications and Signal Processing Research Laboratory (TelSiP) – TEl of Athens
	Funded: EUROPEAN REGIONAL DEVELOPMENT FUND
	Total project budget: 340.000,00 €.
	Implementation Period: 15/12/2011 – 31/01/2014
12/2012 – 09/2015:	EPEAEK – Archimedes III
	Project: «Reinforcement of Research Groups at the Technological Educational Institute (TEI of Athens)»
	Sub-project: «Multidirectional study of pre-earthquake disorders with emphasis on E/M radiation» (No46)
	Coordinator: Dr. Nomicos Constantinos (Emeritus Professor – Department of Electronic Engineering – TEI of Athens)
	Funded: National Strategic Reference Framework (NSRF) 2007-2013
	Total project budget: 100.000,00 €.
	Implementation Period: 01/12/2012 – 30/09/2015
03/2012 - 08/2014:	EPEAEK – Archimedes III
	Project: «Reinforcement of Research Groups at the Technological Educational Institute (TEI of Athens)»
	Sub-project: «SCODO - Experimental evaluation of new co-doped scintillator materials for use in combined
	tomographic imaging systems» (No26)
	Coordinator: Prof. Kourkoutas Konstantinos (Department of Physics Chemistry and Material Technology – TEI of
	Athens)
	Funded: National Strategic Reference Framework (NSRF) 2007-2013
	Total project budget: 100.000,00 €.
	Implementation Period: 01/03/2012 – 31/08/2014

05/2013 – 04/2014:	EPEAEK – Archimedes III
	Project: «Reinforcement of Research Groups at the Technological Educational Institute (TEI of Athens)»
	Sub-project: «Novel applications of x-ray dual energy for early diagnosis in osteoporosis, mammography and
	angiography – XDUALGNOSIS» (No13)
	Coordinator: Prof. Fountos George (Department of Biomedical Engineering – TEI of Athens)
	Funded: National Strategic Reference Framework (NSRF) 2007-2013
	Total project budget: 100.000,00 €.
	Implementation Period: 01/05/2013 – 30/04/2014
12/2012 - 01/2013:	Contract Research Agreement
	Project: «Experimental Development of Telematics Array Transceiver by using DSRC Technology»
	Coordinator: Dr. Koulouras Grigorios (Lecturer – Department of Electronic Engineering – TEI of Athens)
	Funded: Bee Tech S.A.
	Total project budget: 9.225,00 €.
	Implementation Period: 14/12/2012 – 31/01/2013
09/2005 - 08/2007:	EPEAEK – Archimedes II
	Project: «Reinforcement of Research Groups at the Technological Educational Institute (T.E.I. of Athens)»
	Sub-project: «Programs for environmental protection and environmental education» (No1)
	Coordinator: Prof. Drakopoulos Panos (Department of Optics – TEI of Athens)
	Funded: Third Community Support Framework (3rd CSF) 2000-2006
	Total project budget: 414.975,00 €.
	Implementation Period: 01/09/2005 – 31/08/2007
09/2005 - 08/2007:	EPEAEK – Archimedes I
	Project: «Reinforcement of Research Groups at the Technological Educational Institute (T.E.I. of Athens)»
	Sub-project: «Electromagnetic Disturbances and Correlation with Earthquakes» (No16)
	Task: «Design and Implementation of a new datalogger system»
	Coordinator: Prof. Nomicos Constantinos (Department of Electronic Engineering – TEI of Athens)
	Funded: Third Community Support Framework (3rd CSF) 2000-2006
	Total project budget: 51.623,00 €.
	Implementation Period: 01/04/2004 – 31/08/2006

Courses Taught

Dr. Grigorios E. Koulouras has supervised doctoral candidates and has taught both undergraduate and postgraduate programs.

Undergraduate Courses

During his tenure, he has taught at two (2) different Undergraduate Programs in the Departments of «Electrical and Electronic Engineering» and «Biomedical Engineering» of the University of Western Attica.

- (1) 5 years Bachelor Degree at the Department of «Electrical and Electronic Engineering»
- (2) 4 years Bachelor Degree at the Department of « Biomedical Engineering»

He has organized and taught five (5) different undergraduate courses in the above Undergraduate Programs.

- (1) «Internet of Things»
- (2) «Cloud Computing»
- (3) «Introduction to microcontroller Systems»
- (4) «Microprocessors Programmable and Digital Systems»
- (5) «Microcontroller and Embedded Systems»

These courses are detailed below.

03/2018 – Today:	Module: «Internet of Things», «Cloud Computing»
03/2010 = 1000	BSc Course Title: «Electrical and Electronic Engineering»
	Department: Department of Electrical and Electronic Engineering
	University: University of West Attica
10/2010 - 03/2018:	Module: «Introduction to microcontroller systems», «Microprocessors – Programmable Digital Systems»,
	«Microcontrollers and Embedded Systems»
	BSc Course Title: «Electronic Engineering»
	Department: Department of Electronic Engineering
	University: TEI of Athens
10/2012 - 03/2018:	Module: «Microprocessors – Programmable Digital Systems»
	BSc Course Title: «Biomedical Engineering»
	Department: Department of Biomedical Engineering
	University: TEI of Athens
10/2011 - 07/2012:	Module: «Object Oriented Programming – Applications»
	BSc Course Title: «Electronic Engineering»
	Department: Department of Electronic Engineering
	University: TEI of Athens

Postgraduate Courses

During his tenure, he has taught at six (6) different Postgraduate Programs in the Departments of «Electrical and Electronic Engineering» and «Graphic Design and Visual Communication» of the University of Western Attica.

- (1) MSc Course Title: «Internet of Things and Intelligent Environments»
- (2) MSc Course Title: «Communications and Data Networks»
- (3) MSc Course Title: «Master of Science by Research in Electrical and Electronics Engineering»
- (4) MSc Course Title: «New Technologies and Marketing Smart Packaging»
- (5) MSc Course Title: «Embedded and Telecommunication Systems»
- (6) MSc Course Title: «Design and Development of Advanced Electronic Systems»

He has organized and taught seven (7) different postgraduate courses in the above Postgraduate Programs.

- (1) «Internet of Things»
- (2) «Embedded and Real-time Systems»
- (3) «Cloud Computing and Data Analytics»
- (4) «Network Resources Management and Cloud Computing»
- (5) «Software and Data for Smart Packaging»
- (6) «Printed Antennas Programming Environment in Smart Packaging»
- (7) «Embedded Systems»

These courses are detailed below.

03/2018 – Present: Modules: «IoT», «Embedded and Real-time Systems», «Cloud Computing and Data Analytics»

- MSc Course Title: «Internet of Things and Intelligent Environments»
 - Department: Department of Electrical and Electronic Engineering
- University: University of West Attica
- 03/2018 Present: Modules: «IoT», «Network Resources Management and Cloud Computing» MSc Course Title: «Communications and Data Networks» Department: Department of Electrical and Electronic Engineering University: University of West Attica

03/2018 – Present:	Modules: «IoT», «Embedded and Real-time Systems», «Cloud Computing and Data Analytics», «Network Resources
	Management and Cloud Computing»
	MSc Course Title: «Master of Science by Research in Electrical and Electronics Engineering»
	Department: Department of Electrical and Electronic Engineering
	University: University of West Attica
03/2018 - 09/2019:	Modules: «Software and Data for Smart Packaging»
	MSc Course Title: «New Technologies and Marketing – Smart Packaging»
	Department: Department of Graphic Design and Visual Communication
	University: University of West Attica
10/2017 - 03/2018:	Modules: «Embedded Systems», «IoT»
	MSc Course Title: «Embedded and Telecommunication Systems»
	Department: Department of Electronic Engineering
	University: TEI of Athens
10/2011 – 09/2017:	Module: «Embedded Systems»
	MSc Course Title: «Design and Development of Advanced Electronic Systems»
	Department: Department of Electronic Engineering
	University: TEI of Athens
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Supervised Theses

Dr. Grigorios E. Koulouras has supervised or is currently supervising more than 50 postgraduate and undergraduate theses in the areas of Embedded Systems, Internet of Things (IoT), Cloud Computing and Computational Intelligence.

Supervision of PhD Candidates

Dr. Gregory E. Koulouras currently supervises four (4) PhD candidates and participates in four (4) three-member doctoral advisory committees. In addition, to date, he has participated in two (2) three-member doctoral dissertation advisory committees, from inception to completion, which have been successfully completed.

Publications – Scientific Work

His published work includes more than 50 papers in international scientific conference proceedings, edited volumes, scientific journals and book chapters and also his research work has been cited more than <u>1800 times</u> (https://goo.gl/3mca62) in the scientific literature according to Google Scholar search engine. He has served as a guest editor and reviewer for international scientific conference proceedings and scientific journals.

Peer Review Activities:

- IEEE Transactions on Evolutionary Computation
- IEEE Sensors Journal
- Elsevier Ad Hoc Networks
- MDPI Sensors
- IEEE EDERC (European Embedded Design in Education and Research Conference)

Editorial Work:

- Future Internet (Guest Editor of the Special Issue entitled "Computational Intelligence in Internet of Things")
- Computers (Guest Editor of the Special Issue entitled "Integration of Cloud Computing and IoT")

Publications in Book Chapters:

B01.

Book Title: "Mobile Ad hoc Networks: Current Status and Future Trends" (Edited by Jonathan Loo, Jaime Lloret Mauri and Jesús Hamilton Ortiz), Publisher: CRC Press, 1 edition (3 Nov 2011), ISBN-13: 978-1439856505. Chapter 18: "Adaptive Routing Provision by Using Bayesian Inference" co-authored by Ilias Kiourktsidis, Jonathan Loo, and **Grigorios Koulouras**.

B02.Book Title: "Mobile Ad hoc Networks: Current Status and Future Trends" (Edited by Jonathan Loo, Jaime Lloret Mauri
and Jesús Hamilton Ortiz), Publisher: CRC Press, 1 edition (3 Nov 2011), ISBN-13: 978-1439856505.
Chapter 19: "Adaptive Flow Control in Transport Layer Using Genetic Algorithm" co-authored by Ilias Kiourktsidis,
Jonathan Loo, and Grigorios Koulouras.

Journal publications:

J01.	Koulouras G., Kontakos K., Stavrakas I., Stonham J. and Nomicos C. (08/2005) – "Embedded Compact Flash™ – A new data storage system designed for a data acquisition system", IEEE Circuits and Devices Magazine, Volume 21, Issue 4,
	pp. 27-34, ISSN: 8755-3996
J02.	Stavrakas I., Clarke M., Koulouras G., Stavrakakis G. and Nomicos C. (02/2007) – "Study of directivity effect on
	Electromagnetic emissions in the HF band as earthquake precursors: Preliminary results on field observations",
	Tectonophysics, Volume 431, Issue 1-4, pp. 263-271
J03.	Eftaxias K., Contoyiannis Y., Balasis G., Karamanos K., Kopanas J., Antonopoulos G., Koulouras G. and Nomicos C.
	(08/2008) – "Evidence of fractional-Brownian-motion-type asperity model for earthquake generation in candidate
	pre-seismic electromagnetic emissions", Natural Hazards and Earth System Science, Volume 8, Issue 4, pp. 657-669
J04.	Koulouras G., Balasis G., Kiourktsidis I., Nannos E., Kontakos K., Stonham J., Ruzhin Y., Eftaxias K., Kavouras D. and
	Nomicos C. (04/2009) – "Discrimination between preseismic electromagnetic anomalies and solar activity effects",
	Physica Scripta, Volume 79, Issue 4, pp. 12, doi:10.1088/0031-8949/79/04/045901
J05.	Nikolopoulos D., Petraki E., Marousaki A., Potirakis S., Koulouras G., Nomicos C., Panayiotaras D., Stonham J. and
	Louizi A. (02/2012) – "Environmental monitoring of radon in soil during a very seismically active period occurred in
	South West Greece.", Journal of Environmental Monitoring, Volume 14, Issue 2, pp. 564-578,
	doi:10.1039/C1EM10387C
J06.	Petraki E., Nikolopoulos D., Fotopoulos A., Panagiotaras D., Koulouras G., Zisos A., Nomicos C., Louizi A. and Stonham
	J. (02/2013) – "Self-organised critical features in soil radon and MHz electromagnetic disturbances: Results from
	environmental monitoring in Greece", Applied Radiation and Isotopes, Volume 72, pp. 39–53,
	doi:10.1016/j.apradiso.2012.09.005
J07.	Gurkan Tuna, Orhan Arkoc, Grigorios Koulouras , Stelios M. Potirakis (10/2013) – "Navigation System of an Unmanned
	Boat for Autonomous Analyses of Water Quality", Journal "Electronics and Electrical Engineering", Volume 19, No. 8,
	pp.3-7, doi:10.5755/j01.eee.19.8.5387
J08.	Gurkan Tuna, Stelios M. Potirakis, Grigorios Koulouras (12/2013) – "Implementing a Trust and Reputation Model for
	Robotic Sensor Networks", Journal "Electronics and Electrical Engineering", Volume 19, No. 10, pp.3-8,
	doi:10.5755/j01.eee.19.10.5884
J09.	Theodoropoulos S., Kandris D., Samarakou M. and Koulouras G. (02/2014) – "Fuzzy Regulator Design for Wind Turbine
	Yaw Control", The Scientific World Journal, doi:10.1155/2014/516394
J10.	Contoyiannis, Y., Potirakis S. M., Kopanas J., Antonopoulos G., Koulouras G., Eftaxias K., and Nomicos C (02/2014) –
	"On the recent seismic activity at Kefalonia island (Greece): Manifestations of an Earth system in critical state." arXiv
	preprint arXiv:1401.7458v2.
J11.	Michail C., Kalyvas N., Valais I., Fudos I., Fountos G., Dimitropoulos N., Koulouras G., Kandris D., Samarakou M. and
	Kandarakis I. (05/2014) – "Figure of Image Quality and Information Capacity in Digital Mammography", BioMed
	Research International, Volume 2014, Article ID 634856, 11 pages, doi:10.1155/2014/634856

J12. Petraki E., Nikolopoulos D., Chaldeos Y., Koulouras G., Nomicos C., Yannakopoulos H. P., Kottou S. and Stonham J. (07/2014) - "Fractal evolution of MHz electromagnetic signals prior to earthquakes: results collected in Greece during 2009.", Geomatics, Natural Hazards and Risk, Volume 7, Number 2, pp. 550-564, (2016), doi: 10.1080/19475705.2014.945496 J13. Nikolopoulos D., Petraki E., Nomicos C., Koulouras G., Kottou S. & Yannakopoulos P. H. (01/2015) - "Long-memory trends in disturbances of radon in soil prior to the twin ML= 5.1 earthquakes of 17 November 2014 Greece. ", Journal of Earth Science & Climatic Change, 6(244), 2, doi: 10.4172/2157-7617.1000244 J14. Potirakis S. M., Contoviannis Y., Eftaxias K., Koulouras G. and Nomicos C. (03/2015). - "Recent field observations indicating an Earth system in critical condition before the occurrence of a significant earthquake.", Geoscience and Remote Sensing Letters, IEEE, 12(3), 631-635., doi: 10.1109/LGRS.2014.2354374 J15. Koulouras G., Alexandridis A., Karabetsos S., Grispos S., Stoumpis G., Charamis P. and Nassiopoulos A. (04/2016). -"An Embedded PID Temperature Control Scheme with Application in a Medical Microwave Radiometer.", Journal of Engineering Science and Technology Review – JESTR, Volume 9, Issue 4, pp. 56-60, ISSN: 1791-2377 J16. Paterakis F., Nafpaktitis D., Darwish M., Koulouras G., Janbey A., & Hloupis G. (12/2016). – "Implementation of Equal Areas-PWM in Multilevel Inverters." International Review of Electrical Engineering (IREE), 11(6), 558-566, doi: 10.15866/iree.v11i6.9812 J17. Contoyiannis Y., Potirakis S. M., Kopanas J., Antonopoulos G., Koulouras G., Eftaxias K., & Nomicos, C. (07/2017). "On the recent seismic activity at eastern Aegean Sea: Analysis of fracture-induced electromagnetic emissions in terms of critical fluctuations.", arXiv preprint, arXiv:1708.00320. J18. Livanos N.-A., Hammal S., Nikolopoulos C., Baklezos A., Capsalis C., Koulouras G., Charamis P., Vardiambasis I., Nassiopoulos A., Kostopoulos S., Asvestas P., Cavouras D. and Siores E. (12/2017). - "Design and Interdisciplinary Simulations of a Hand-held Device for Internal-Body Temperature Sensing Using Microwave Radiometry.", IEEE Sensors Journal, (2018), doi: 10.1109/JSEN.2018.2791443 J19. Paterakis F., Nafpaktitis D., Darwish M., and Koulouras G. (2018) – "A Modified Algorithm based on the Equal-Areas PWM for the Extend of Linear Operation of a Microprocessor-Controlled PWM-VSI.", International Journal of Robotics and Mechatronics, 5(1), 12-19, doi: 10.21535%252Fijrm.v5i1.983 J20. Potirakis S. M., Contoyiannis Y., Melis N. S., Koulouras G., Kopanas J., Antonopoulos G., Eftaxias K., & Nomicos C. (11/2018) - "Preliminary results concerning the fracture-induced electromagnetic emissions recorded prior to the Mw 6.7 Earthquake on October 25, 2018 south of Zakynthos. ", arXiv preprint, arXiv:1811.11015v1. J21. Potirakis S. M., Schekotov A., Contoyiannis Y., Balasis G., Koulouras G. E., Melis N. S., Eftaxias K., & Nomicos C. (03/2019)., "On Possible Electromagnetic Precursors to a Significant Earthquake (Mw= 6.3) Occurred in Lesvos (Greece) on 12 June 2017.", Entropy, 21(3), 241, doi: 10.3390/e21030241 Zantalis F., Koulouras G., Karabetsos S. and Kandris D. (04/2019). - "A review of Machine Learning and IoT in Smart J22. Transportation.", Journal of Future Internet 2019, 11(4), 94, doi: 10.3390/fi11040094 J23. Korovesis N., Kandris D., Koulouras G., and Alexandridis A. (11/2019) – "Robot Motion Control via an EEG-Based Brain-Computer Interface by using Neural Networks and Alpha Brainwaves.", Journal of Electronics 2019, 8(12), 1387, doi:10.3390/electronics8121387 Kandris D., Nakas C., Vomvas D. and Koulouras G. (02/2020) - "Applications of Wireless Sensor Networks: An Up-to-J24. Date Survey.", Applied System Innovation, 3(1), 14, doi:10.3390/asi3010014 J25. Zantalis F., Koulouras G. and Karabetsos S., "Blockchain Technology: A Framework for Endless Applications," in IEEE Consumer Electronics Magazine, vol. 13, no. 2, pp. 61-71, March 2024, doi: 10.1109/MCE.2023.3248872

Conference publications:

C01.	Stavrakas I., Koulouras G. , Nomicos C., Melis N. and Stavrakakis G. (11/2003) - "Algorithmic analysis of Electromagnetic variations possibly related to earthquake events", 1st International Conference on Earthquake Prediction, Athens – Greece
C02.	Kapiris P., Nomikos K., Kopanas J., Antonopoulos G., Koulouras G. , Skountzos P., Zissos A., Mylonas S. and Eftaxias K. (09/2004) - "Lessons from the Athens earthquake", 4th International Workshop on magnetic, electric and electromagnetic methods in seismology and volcanology, La Londe les Maures – France
C03.	Piliouras N., Kalatzis I., Georgiadis P., Ninos D., Koulouras G. , Minadakis G., Cavouras D. and Nomikos C. (09/2004) - "Electromagnetic seismic signal analysis employing pattern recognition methods", 1st International Conference "From Scientific Computing to Computational Engineering" – Athens – Greece, ISBN: 960-8457-28-9
C04.	Koulouras G. , Kontakos K., Minadakis G., Stavrakas I., Stonham J. and Nomicos C. (07/2005) - "A Data Acquisition System using Compact Flash™ memory", 2005 WSEAS 2nd International Conference on ENGINEERING EDUCATION, Vouliagmeni – Athens – Greece, pp. 519-524, ISBN: 960-8457-28-9
C05.	Pelegris P., Petropoulos F., Klimopoulos A., Koulouras G. , Kontakos K., Chatzidiakos P., Nassiopoulos A. and Nomicos C. (07/2005) - "A telemetric system based on GPRS technology", 2005 WSEAS 2nd International Conference on ENGINEERING EDUCATION, Vouliagmeni – Athens – Greece, pp. 528-531, ISBN: 960-8457-28-9

- C06. Georgiadis P., Piliouras N., Sidiropoulos K., **Koulouras G.**, Minadakis G., Cavouras D. and Nomicos C. (07/2005) -"Smartphone–based system for monitoring electromagnetic signals", 2005 WSEAS 2nd International Conference on ENGINEERING EDUCATION, Vouliagmeni – Athens – Greece, pp. 525-527, ISBN: 960-8457-28-9
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