

CURRICULUM VITAE

NAME: GEORGE TSOULOS
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EDUCATION

PhD degree (1997): (University of Bristol, Department of Electrical Engineering, Bristol, UK). PhD Thesis Title: 'Smart Antennas for Third Generation Wireless Personal Communications', (supervisor: Professor M. Beach). Funded by the Centre for Communications Research of the University of Bristol, the CEC under the R&D project RACE TSUNAMI I and the UK operator ORANGE PCS.

First Degree (1992): (National Technical University of Athens, School of Electrical and Computer Engineering; Division Electronics). Final year thesis: "Theory and Applications of Spread Spectrum Modulation; Modem Implementation with the Direct Sequence Spread Spectrum Technique and Measurements", (Mobile Radiocommunications Laboratory, supervisor: Professor P. Constantinou).

PROFESSIONAL CAREER

CURRENT POSITION (SINCE FEB. 2005): UNIVERSITY OF PELOPONNESE, DEPARTMENT OF INFORMATICS & TELECOMMUNICATIONS

- Professor 'Wireless & Mobile Communication Systems'
- Director MSc 'Modern Wireless Communications'
- Director Wireless & Mobile Communications Lab (<http://wmclab.uop.gr>).
- Vice Rector 'R&D' (Oct. 2013-Nov. 2017).
- Director MSc 'Advanced Telecommunication Systems & Networks' (up to Feb. 2014).

- Research Interests

- Advanced Wireless Communications Systems & Architectures
- UAV & THz communication systems
- Smart Antennas and MIMO systems
- Radio Network Planning
- Radiowave Propagation and Measurements

Recent Research projects:

- Horizon 2020 'BIM-based holistic tools for Energy-driven Renovation of existing Residences – BIMERR', 1/1/2019-31/12/2021, total budget 6.93 m€.
- Horizon 2020 'Integrated Modular Energy Systems and Local Flexibility Trading for Neural Energy Islands – MERLON', 1/1/2019-30/6/2022, total budget 5.74 m€.
- European Regional Development Fund (ERDF) and Peloponnese Region, 'Observatory of electromagnetic fields emitted from 5G networks in the Peloponnese (PANDORA)', 1/5/2021–30/4/2023, total budget 400.000 €.

- Teaching

Undergraduate:

- Principles of Telecommunication Systems, (2nd year)
- Antennas, (3rd year)
- Wireless & Mobile Communications (3rd year)
- Modern Cellular Communication systems (3rd year)
- Radar systems (4th year)

Postgraduate:

- *MSc 'Advanced Telecommunication Systems and Networks' and MSc 'Modern Wireless Communications':* Wireless & Mobile Communications

- Research Excellence

The article 'The effects of antenna array size and back lobe level on self-interference and transmitted powers of 4g beamforming multicell systems with in-band full duplex relays', was finalist for Best Paper Award at the 9th EUCAP, Lisbon, Portugal, 12-17 April 2015.

2004 - 2017: HELLENIC OPEN UNIVERSITY, SCHOOL OF SCIENCE & TECHNOLOGY

Undergraduate teaching: 'Fundamental issues of Computer Networks' (a/ Digital Communications, b/ Networks, c/ Information theory and Coding), 2nd year.

2006 - 2014: NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS, FACULTY OF INFORMATICS & TELECOMMUNICATIONS

Joint supervision of PhD student D. Kontaxis on MIMO systems.

MARCH 2003 - JUNE 2009: SENIOR RESEARCHER, NATIONAL TECHNICAL UNIVERSITY OF ATHENS, SCHOOL OF ELECTRICAL & COMPUTER ENGINEERING, MICROWAVE & FIBER OPTICS LAB

1. *Design and Analysis of 3rd generation mobile communication systems with smart antennas*, program ENTER, 20 months (1/5/2003-30/11/2004), 70.514 € CEC funded.
2. *Advanced wireless communication MIMO systems*, PENED 2003, 3.5 years (11/2005-06/2009), 225.456 € CEC funded, *included 4 PhDs*.

2005 - 2007: TECHNOLOGICAL EDUCATIONAL INSTITUTE OF KALAMATA, DEPARTMENT OF INFORMATICS & TELECOMMUNICATIONS

Undergraduate teaching: 'Introduction in Telecommunications' (1st year).

DECEMBER 1999 – JUNE 2002: PA CONSULTING GROUP, CAMBRIDGE TECHNOLOGY CENTRE, WIRELESS TECHNOLOGY PRACTICE, CAMBRIDGE, UK

Leading technical expert for the following R&D projects:

1. *GSM-R network planning for the national railway network (Switzerland – Overall Winner of the 2002 Management Consultancies Association Award)*
2. *Multi-user detection (MUD) for WCDMA (for a leading US manufacturer)*
3. *Design specification of a WCDMA Node B product for pico/micro cells (for a US 3G basestation manufacturer)*
4. *Evaluation of proprietary smart antenna technologies*
 - a. *A new wireless broadband access system (USA)*
 - b. *Cost efficient implementation of a GSM smart antenna base station (USA)*
 - c. *A novel antenna technique and its application to smart antennas (UK)*
 - d. *Design specification for a GSM product with smart antennas (GSM manufacturer)*
5. *Network planning for a national digital audio broadcast network (UK)*
6. *Requirement specification for a new wireless PDA (USA)*
7. *Leaky feeder network upgrade for 2.5 and 3G communications (Hong Kong)*
8. *Network planning and performance evaluation for GSM, CDMA and WCDMA with smart antennas (USA)*
9. *Network planning for WCDMA microcellular systems (Japan)*

JANUARY 1994 - OCTOBER 1999: UNIVERSITY OF BRISTOL, DEPARTMENT OF ELECTRICAL ENGINEERING, CENTRE FOR COMMUNICATIONS RESEARCH

Research Associate and Research Fellow HEFCE (Higher Education Funding Council for England)

Role: Proposal writing, technical expert

1. *ACTS SUNBEAM (Smart UNiversal BEAMforming), funded by the CEC. Partners: ERA Technology (UK), Motorola ECID (UK), Robert Bosch (GER), France Telecom (FR), Thomson CSF Communications (FR), WSI (UK), University of Aalborg (D), University of Catalunya (SP). Duration: 1.5 years.*
2. *Optimisation of Adaptive Antennas for UMTS Microcellular Environments (UK EPSRC Grant, also supported by ORANGE PCS, UK). Duration: 1.5 years.*
3. *WCDMA architectures with adaptive antennas for large cell operational environments (funded by the FUJITSU Europe Telecom R&D Centre, UK): Duration: 3 years.*
4. *Network planning for user location systems (US SME) Duration: 6 months.*
5. *ACTS TSUNAMI IIa - Technology in Smart Antennas for Universal Advanced Mobile Infrastructure (funded by the CEC): Partners: ERA Technology (UK), Orange PCS (UK), Motorola ECID (UK), CASA (SP), France Telecom (FR), Robert Bosch (GER), WSI (UK), University of Aalborg (D), University of Catalunya (SP). Duration 2 years.*
6. *ACTS TSUNAMI IIb (funded by the CEC): Duration: 1 year*
7. *Capacity evaluation of GSM 1800 with adaptive antennas (funded by Orange PCS, UK): Duration: 6 months.*
8. *RACE TSUNAMI I project (funded by the CEC): Partners: ERA Technology (UK), Alcatel SEL (GER), Detycom (SP), Hagenuk (GER), University of Aalborg (D), University of Catalunya (SP). Duration: 2 years.*

1992 - 1993: NATIONAL TECHNICAL UNIVERSITY OF ATHENS, DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING, MOBILE RADIOCOMMUNICATIONS LABORATORY

Research Assistant

Role: Proposal writing, technical expert

1. *INMARSAT 21 R&D project: Pan-European safety standards for non-ionising radiation*
2. *RACE BARBARA project: functional requirements for tele-library/training applications*

ADDITIONAL INFORMATION

1. External expert for the HORIZON CSA COREnect, expert group #2 Communications/Sensing Core technologies for Future network (2020).
2. EuCAP 2020, Copenhagen, Denmark, Convened Sessions Chair.
3. Expert reviewer for DG CNECT for H2020-ICT proposals and projects.
4. Expert member of the NetWorld 2020.
5. Vice-chair of the expert evaluation panel for Chist-Era research proposals (2016)
6. Elected a EurAAP (European Association on Antennas and Propagation) regional delegate for Group 15 (Cyprus, Greece, Israel, Turkey) 2015-2019
7. Participation in the UAE Drones for Good 2017 with the proposal 'Remote Refugee Rescue & Drone Assisted Telemedicine (Drones4Sea)'
8. National representative at the Cost Action CA15104: Inclusive Radio Communication Networks for 5G and beyond - IRACON, (2016)
9. External Expert evaluator for the project 'Study and analysis of medical data with MRI/DTI/fMRI', August-November 2015.
10. National representative at the Cost Action IC1102: Versatile, Integrated, and Signal-aware Technologies for Antennas - VISTA, (2011).
11. 'Invited Researchers from abroad', R&D Programme ENTER, (2003).
12. Overall Winner with the PA Consulting Group of the 2002 Management Consultancies Association Award, for work with the Swiss Government Federal Office of Transport, developing a wireless communications strategy for the Swiss railway industry (role: main technical expert)
13. IEEE Senior member (2002)
14. Research Fellow at the University of Bristol, UK, funded by HEFCE (Higher Education Funding Council for England), (1998)
15. 'Distinguished Scientist' Award from the Hellenic Ministry of Defence (1997)
16. Postgraduate studentship from the Centre for Communications Research of the University of Bristol, UK (1994-1995)
17. Member of the Editorial Boards of five international journals
18. Guest Editor of the IEEE Communications Magazine (two-part) special issue on 'Adaptive Antennas for Wireless Communications' (2004).
19. TPC member for more than 50 international IEEE conferences
20. Reviewer for 15 international journals, more than 40 international conferences, several special issue proposals for journals and book proposals (CRC Press, Academic Press)
21. Chairman of the COST 260 working group 2b (smart antennas) and expert member of SIG1, COST231, COST259 and COST260
22. Chairman/organiser:
 - i/ IBC seminar on 3G WCDMA network planning (London 2002)
 - ii/ IIR seminar on smart antennas (London 2001)
 - iii/ First COST260 Workshop on smart antennas (Croatia 1997)
 - iv/ ICC'99 in Canada

23. Acknowledged for contributions in the books:
i/ J.D.Parsons “The mobile radio propagation channel”
ii/ H.R.Anderson, “Fixed broadband wireless system design”

PUBLICATIONS

THESES

- [1] Smart Antennas for Third Generation Wireless Personal Communications, G.V.Tsoulos, PhD Thesis, University of Bristol, Bristol, UK, 1997.
- [2] Application of Adaptive Antenna Technology to Third Generation Mixed Cell Radio Architectures, G.V.Tsoulos, Master to PhD transfer thesis, University of Bristol, Bristol, UK, 1993.
- [3] Theory and Applications of Spread Spectrum Modulation; Modem Implementation with the Direct Sequence Spread Spectrum Technique and Measurements, Undergraduate Thesis, National Technical University of Athens, School of Electrical & Computer Engineering, Athens, 1992.

BOOKS

- [1] MIMO System Technology for Wireless Communications, G.V.Tsoulos, CRC Press, 2006, ISBN-13: 978-0-8493-4190-8.
- [2] Adaptive Antennas for Wireless Communications, G.V.Tsoulos, Wiley-IEEE Press, 2001, ISBN 0-780-36016-8.

BOOK CHAPTERS

- [1] G.V.Tsoulos, G.E. Athanasiadou, D.Zarbouti, I.Valavanis, “RF Planning for next generation systems”, Chapter 9 in *New Directions in Wireless Communications systems: From Mobile to 5G*, A.Kanatas, N.Nikita, T.Mathiopoulos (ed.), CRC Press, 2016.
- [2] G.V.Tsoulos and C.Christodoulou, “Arrays and Smart Antennas”, Chapter 11 in *Modern Antenna Handbook*, C.Balanis (editor), Wiley Interscience, 2008, pp. 531-580.
- [3] D.Zarbouti, G.V.Tsoulos, D.Kaklamani, “Theory and practice of MIMO systems for wireless communications”, Chapter 2 in *MIMO System Technology for Wireless Communications*, G.V.Tsoulos (editor), CRC Press, 2006.
- [4] G.V.Tsoulos, “Adaptive antennas and MIMO systems for mobile communications”, Chapter 1 in *Adaptive Antenna Arrays*, Sathish Chandran (editor), pp. 3-26, Springer Verlag, 2004.
- [5] G.V.Tsoulos, J.McGeehan, M.Beach, “Adaptive antennas for personal communication systems”, Chapter 31 in *Insights into Mobile Multimedia Communications*, D.Bull, N.Canagarajah and A.Nix (editors), pp. 493-510, Academic Press, 1999.

EDITORIALS

- [1] G.V.Tsoulos, “Adaptive antennas and MIMO systems for wireless communications – Part II”, Guest Editor, *IEEE Communications Magazine*, special issue, December 2004.
- [2] G.V.Tsoulos, “Adaptive antennas and MIMO systems for wireless communications – Part I”, Guest Editor, *IEEE Communications Magazine*, special issue, October 2004.

WHITE PAPERS

- [1] N. Cardona (editor), 'COST IC1004 white paper on scientific challenges towards 5G mobile communications', <http://www.ic1004.org/uploads/Documents/COST%20IC1004%20White%20Paper%20on%20Mobile%20Comms%20Challenges%20towards%205G%20-%20202013.pdf>

INTERNATIONAL JOURNALS

- J1. G.E. Athanasiadou, P. Fytanidis, D.A. Zoubouti, G.V. Tsoulos, P.K. Gkonis, D.I. Kaklamani, Radio Network Planning towards 5G mmWave Standalone Small-Cell Architectures, *MDPI Electronics Journal*, 9 (2), pp. 339, 2020.
- J2. S.K. Goudos, G.V. Tsoulos, G.E. Athanasiadou, M. Batistatos, D.A. Zoubouti, and K.E. Psannis, "Artificial Neural Network Optimal Modeling and Optimization of UAV Measurements for Mobile Communications Using the L-SHADE Algorithm." *IEEE Transactions on Antennas and Propagation*, 2019, 67: 4022–31. <https://doi.org/10.1109/TAP.2019.2905665>.
- J3. G.E. Athanasiadou, G.V. Tsoulos, D.A. Zoubouti, and I.K. Valavanis, "Optimizing Radio Network Planning Evolution Towards Microcellular Systems." *Wireless Personal Communications Journal*, 2019. <https://doi.org/10.1007/s11277-019-06177-5>.
- J4. G.P. Karatza, K.P. Peppas, N.C. Sagias, G.V. Tsoulos, "Unified Ergodic Capacity Expressions for AF Dual-Hop Systems with Hardware Impairments." *IEEE Communications Letters*, 2019, vol. 23, no 6, pp. 1057–60.
- J5. G. E. Athanasiadou, M. C. Batistatos, D. A. Zoubouti, G. V. Tsoulos, 'LTE Ground to Air Field Measurements in the context of Flying Relays ', *IEEE Wireless Communications Magazine*, vol. 26, issue 1, Feb. 2019, pp. 12-17.
- J6. D. Zoubouti, G. V. Tsoulos, G. E. Athanasiadou, "The Effective Radiation Pattern Concept for Wireless Systems Analysis," *Electronics Letters*, 14 June 2017.
- J7. G. V. Tsoulos, Ö. Bulakci, D. A. Zoubouti, G. E. Athanasiadou and A. Kaloylos, "Dynamic Wireless Network Shaping via Moving Cells: The Nomadic Nodes Case," *Wiley Transactions on Emerging Telecommunications Technologies*, 2016.
- J8. D. E. Kontaxis, G. V. Tsoulos, G. E. Athanasiadou and S. Karaboyas, "Optimality of Transmit Beamforming in Spatially Correlated MIMO Rician Fading Channels," *Wireless Personal Communications*, pp. 1-14, 2015.
- J9. D. A. Zoubouti, G. V. Tsoulos and G. E. Athanasiadou, "Effects of antenna array characteristics on in-band full-duplex relays for broadband cellular communications," *ICT Express*, 2015.
- J10. D. A. Zoubouti, G. V. Tsoulos, G. E. Athanasiadou and C. Valagiannopoulos, "The Effective Radiation Pattern Concept for Realistic Performance Estimation of LTE Wireless Systems," *International Journal of Antennas and Propagation*, vol. 2013, 2013.
- J11. P. K. Gkonis, G. V. Tsoulos and D. I. Kaklamani, "Performance evaluation of MIMO-WCDMA cellular networks in multiuser frequency selective fading environments," *Wireless Communications and Mobile Computing*, vol. 13, no. 1, pp. 72-84, 2013.
- J12. D. E. Kontaxis, G. V. Tsoulos and S. Karaboyas, "Ergodic Capacity Optimization for Single-Stream Beamforming Transmission with MISO Rician Fading Channels," *Vehicular Technology, IEEE Transactions on*, vol. 62, no. 2, pp. 628-641, 2013.
- J13. G. V. Tsoulos and G. E. Athanasiadou, "Analysis of CDMA MIMO Beamforming Multicell Deployment

Scenarios using Effective Radiation Patterns," *Wireless Personal Communications*, pp. 1-12, 2013.

- J14. D. A. Zarbouti, D. C. Tsilimantos, G. V. Tsoulos, G. E. Athanasiadou and D. I. Kaklamani, "Performance of OFDMA multicell systems with Opportunistic Beamforming," *Wireless Personal Communications*, vol. 65, no. 4, pp. 843-861, 2012.
- J15. I. N. Stiakogiannakis, G. E. Athanasiadou, G. V. Tsoulos and D. I. Kaklamani, "Performance Analysis of Fractional Frequency Reuse for Multi-Cell WiMAX Networks Based on Site-Specific Propagation Modeling [Wireless Corner]," *Antennas and Propagation Magazine, IEEE*, vol. 54, no. 1, pp. 214-226, 2012.
- J16. M. C. Batistatos, G. V. Tsoulos and G. E. Athanasiadou, "Mobile telemedicine for moving vehicle scenarios: Wireless technology options and challenges," *Journal of Network and Computer Applications*, vol. 35, no. 3, pp. 1140-1150, 2012.
- J17. D. E. Kontaxis, G. V. Tsoulos and S. Karaboyas, "Beamforming Capacity Optimization for Rician MIMO Wireless Channels," *Wireless Communications Letters, IEEE*, vol. 1, no. 3, pp. 257-260, 2012.
- J18. D. C. Tsilimantos, D. A. Zarbouti, G. V. Tsoulos, G. E. Athanasiadou and D. I. Kaklamani, "Fairness and throughput trade-off analysis for UMTS WCDMA network planning," *Wireless Personal Communications*, vol. 56, no. 4, pp. 693-714, 2011.
- J19. P. K. Gkonis, T. E. Athanaileas, G. V. Tsoulos, G. E. Athanasiadou and D. I. Kaklamani, "Adaptive Beam-Centric Admission Control for WCDMA Multicell/Multiservice Scenarios with Non-Uniform Traffic," *Wireless Personal Communications*, vol. 58, no. 2, pp. 369-389, 2011.
- J20. T. E. Athanaileas, G. E. Athanasiadou, G. V. Tsoulos and D. I. Kaklamani, "Parallel radio-wave propagation modeling with image-based ray tracing techniques," *Parallel Computing*, vol. 36, no. 12, pp. 679-695, 2010.
- J21. D. A. Zarbouti, I. Stiakogiannakis, G. V. Tsoulos, G. E. Athanasiadou and D. I. Kaklamani, "OFDMA techniques in multicellular networks with total frequency reuse," *Computer Communications*, vol. 32, no. 3, pp. 522-530, 2009.
- J22. P. K. Gkonis, G. V. Tsoulos and D. I. Kaklamani, "Dual code Tx diversity with antenna selection for spatial multiplexing in MIMO-WCDMA networks," *Communications Letters, IEEE*, vol. 13, no. 8, pp. 570-572, 2009.
- J23. T. Athanaileas, P. K. Gkonis, G. E. Athanasiadou, G. V. Tsoulos and D. I. Kaklamani, "Implementation and evaluation of a web-based grid-enabled environment for WCDMA multibeam system simulations [wireless corner]," *Antennas and Propagation Magazine, IEEE*, vol. 50, no. 3, pp. 195-204, 2008.
- J24. P. K. Gkonis, G. V. Tsoulos, G. E. Athanasiadou and D. I. Kaklamani, "An adaptive beam-shaping strategy for WCDMA multicellular networks with non-uniform traffic requirements," *Journal of Communications*, vol. 3, no. 4, pp. 16-25, 2008.
- J25. D. Zarbouti, G. Tsoulos and D. I. Kaklamani, "Impact of Fading Correlation and Calibration Distortion on MIMO Capacity Performance," *WSEAS Transactions on Communications*, vol. 4, no. 10, p. 1040-1047, 2005.
- J26. G. V. Tsoulos and G. E. Athanasiadou, "On the application of adaptive antennas to microcellular environments: radio channel characteristics and system performance," *Vehicular Technology, IEEE Transactions on*, vol. 51, no. 1, pp. 1-16, 2002.
- J27. S. Loyka and G. Tsoulos, "Estimating MIMO system performance using the correlation matrix

approach," *Communications Letters, IEEE*, vol. 6, no. 1, pp. 19-21, 2002.

- J28. R. J. Piechocki, J. P. McGeehan and G. V. Tsoulos, "A new stochastic spatio-temporal propagation model (SSTPM) for mobile communications with antenna arrays," *Communications, IEEE Transactions on*, vol. 49, no. 5, pp. 855-862, 2001.
- J29. G. V. Tsoulos, G. E. Athanasiadou and R. J. Piechocki, "Low-complexity smart antenna methods for third-generation W-CDMA systems," *Vehicular Technology, IEEE Transactions on*, vol. 49, no. 6, pp. 2382-2396, 2000.
- J30. M. M. A. Beach, J. P. McGeehan, C. M. Simmonds, P. Howard, P. Darwood, G. V. Tsoulos, A. R. Nix, P. Hafezi and S. U. N. Yong, "European smart antenna test-beds," *Journal of communication and networks*, vol. 2, no. 4, pp. 317-324, 2000.
- J31. G. V. Tsoulos, "Smart antennas for mobile communication systems: benefits and challenges," *Electronics & Communication Engineering Journal*, vol. 11, no. 2, pp. 84-94, 1999.
- J32. G. V. Tsoulos, "Experimental and theoretical capacity analysis of space-division multiple access (SDMA) with adaptive antennas," *IEE Proceedings-Communications*, vol. 146, no. 5, pp. 307-311, 1999.
- J33. G. Tsoulos, J. McGeehan and M. Beach, "Space division multiple access (SDMA) field trials. I. Tracking and BER performance," *Radar, Sonar and Navigation, IEE Proceedings-*, vol. 145, no. 1, pp. 73-78, 1998.
- J34. G. Tsoulos, J. McGeehan and M. Beach, "Space division multiple access (SDMA) field trials. 2. Calibration and linearity issues," *Radar, Sonar and Navigation, IEE Proceedings-*, vol. 145, no. 1, pp. 79-84, 1998.
- J35. G. V. Tsoulos, "Single and multiple cell deployment of adaptive antennas with CDMA," *Electronics Letters*, vol. 34, no. 23, pp. 2196-2197, 1998.
- J36. R. J. Piechocki, G. V. Tsoulos and J. P. McGeehan, "Simple general formula for PDF of angle of arrival in large cell operational environments," *Electronics Letters*, vol. 34, no. 18, pp. 1784-1785, 1998.
- J37. G. V. Tsoulos, "Approximate SIR and BER formulas for DS-CDMA based on radiation pattern characteristics of adaptive antennas," *Electronics letters*, vol. 34, no. 19, pp. 1802-1804, 1998.
- J38. G. V. Tsoulos, G. E. Athanasiadou, M. A. Beach and S. C. Swales, "Adaptive antennas for microcellular and mixed cell environments with DS-CDMA," *Wireless Personal Communications*, vol. 7, no. 2-3, pp. 147-169, 1998.
- J39. G. Tsoulos, M. Beach and J. McGeehan, "Wireless personal communications for the 21st century: European technological advances in adaptive antennas," *Communications Magazine, IEEE*, vol. 35, no. 9, pp. 102-109, 1997.
- J40. G. V. Tsoulos, M. A. Beach and S. C. Swales, "Sensitivity analysis of capacity enhancement with adaptive multibeam antennas for DCS1800," *Electronics Letters*, vol. 32, no. 19, pp. 1745-1747, 1996.
- J41. G. V. Tsoulos, M. A. Beach and S. C. Swales, "DS-CDMA capacity enhancement with adaptive antennas," *Electronics Letters*, vol. 31, no. 16, pp. 1319-1320, 1995.

ONLINE JOURNALS

1. Ελισάβετ Κούτσι, Σωτήριος Δεληγιάννης, Δήμητρα Ζαρμπούτη, Ιωάννης Σαραντόπουλος, Γεωργία Αθανασιάδου, Γεώργιος Τσούλος, 'Μετρήσεις ΗΜ ακτινοβολίας σε περιβάλλον εσωτερικού χώρου με

χρηστες κινητής και WiFi', ΠΕΛΟΠΑΣ διεπιστημονικό περιοδικό Πανεπιστημίου Πελοποννήσου, τόμος 3, τεύχος 1, Ιανουάριος - Ιούνιος 2020.

2. P. Koutsandrias, G. Tsoulos, G. Athanasiadou, D. Zarbouti, N.Sagias, 'Nanosatellites', ΠΕΛΟΠΑΣ διεπιστημονικό περιοδικό Πανεπιστημίου Πελοποννήσου, τόμος 2, τεύχος 1, Ιανουάριος - Ιούνιος 2019, σελ. 1-13.
3. Μ. Μπατιστάτος, Γ. Τσούλος, Ν. Σαγιάς, Δ. Ζαρμπούτη, Γ. Αθανασιάδου, Π. Ματσάγγος, 'Τεχνολογία και εφαρμογές μη-επανδρωμένων εναέριων οχημάτων', ΠΕΛΟΠΑΣ διεπιστημονικό περιοδικό Πανεπιστημίου Πελοποννήσου, τόμος 2, τεύχος 1, Ιανουάριος - Ιούνιος 2018, σελ. 1-13, ISSN 2529-1831.
4. Γ.Τσούλος, Γ.Αθανασιάδου, Δ.Ζαρμπούτη, Ι.Βαλαβάνης, 'Σχεδίαση οικολογικών δικτύων κινητών επικοινωνιών χαμηλής εκπεμπόμενης ισχύος', ΠΕΛΟΠΑΣ διεπιστημονικό περιοδικό Πανεπιστημίου Πελοποννήσου, τόμος 1, τεύχος 1, Ιανουάριος - Ιούνιος 2017, σελ. 62-74, ISSN 2529-1831.
5. G.V. Tsoulos, P. Fytampanis, G.E. Athanasiadou and D.A. Zarbouti, "Wireless Channel Capacity Estimation in the THz Band," FERMAT (Forum for Electromagnetic Research Methods and Application Technologies), Volume 20, Communication 20, Mar-Apr., 2017.

INTERNATIONAL CONFERENCES

- C1. S.G. Goudos, G.E. Athanasiadou, G.V. Tsoulos, V. Rekkas, Modelling Ray Tracing Propagation Data Using Different Machine Learning Algorithms, EuCAP 2020, 15-20 March **2020**, Copenhagen, Denmark.
- C2. S.G. Goudos, G.V. Tsoulos, G.E. Athanasiadou, Modelling Received Signal Power in Modern Mobile Communications with UAVs Using Ensemble Learning, EuCAP 2019, 31 March - 5 April **2019**, Krakow, Poland.
- C3. G.V. Tsoulos, G.E. Athanasiadou, Path Loss Characteristics for UAV-to-Ground Wireless Channels, EuCAP 2019, 31 March - 5 April **2019**, Krakow, Poland.
- C4. E. Koutsi, S. Deligiannis, I. Sarantopoulos, D.A. Zarbouti, G.E. Athanasiadou, and G.V Tsoulos, "Radiation Measurements in Office Environment with Wi-Fi, 3G and 4G Users." *International Conference on Modern Circuits and Systems Technologies (MOCAST) on Electronics and Communications*, Thessaloniki, Greece, **2019**.
- C5. G. Xilouris, M. Batistatos, G.E Athanasiadou, G.V Tsoulos, H.B. Pervaiz, and C. Zarakovitis, "UAV-Assisted 5G Network Architecture with Slicing and Virtualization." In 2018 IEEE Globecom Workshops. Abu Dhabi, UAE, **2018**.
- C6. M.C. Batistatos, G.V. Tsoulos, D.A. Zarbouti, G.E. Athanasiadou and S.K. Goudos "LTE Measurements for Flying Relays", IEEE *International Conference on Modern Circuits and Systems Technologies (MOCAST)*. Thessaloniki, Greece, **2018**.
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