

Currently, I am Professor (full) of wireless communication systems at the Department of Electronics Engineering of the Technological Institute (TEI) of Athens, Greece, and head the Wireless Communications & eApplications Research (WiCEAR) Group. Before, I worked in UK, Cyprus, Greece, and Belgium as a telecoms expert. I was the coordinator of the FP7 ICT REWIND project, focusing on the development of a Relay Station (RS) prototype for IEEE 802.16j WiMAX networks and scientifically lead the WiCEAR group, in NexGenMiliwave project (development of a 60GHz transceiver) within the concept of microelectronics "Corallia" cluster. I have published over 80 scientific papers in international journals and conferences, attracting over 20 citations.

The list of my research papers followed by the citations list is given in the end of this statement.

My research is concentrated in the physical (PHY) layer of the electronic communications systems. During my PhD at the university of Bradford - UK, I designed all passive and active circuits of a direct conversion receiver and studied its phase and amplitude imbalances. While working on my Postdoctoral assignment at the University of Kent - UK, I studied and experimented on various types of concentric microstrip ring antennas, tuned at higher order modes, suitable for mobile satellite communications. Working at the Greek Telecom Operator (OTE), I studied the electric field behaviour over various radio installations, developing thus models to be used for licensing purposes. Moving back to academia, I successfully gained two major research projects (REWIND and NexGenMiliwave) and supervised three PhD students.

In particular, I am the founder of the Wireless Telecommunication and eApplications Research Group – WiCEAR since 2007 (<http://users.teiath.gr/kvoud>). WiCEAR group has coordinated the FP7 ICT REWIND project and been member of the NextGenMiliwave consortium. Both projects were budgeted 9Mil€ from which 1M€ was for WiCEAR group. WiCEAR group is member of the **WiMAX forum**, the Radio Access and Spectrum (**RAS**) cluster, and the Hellenic Semiconductor Industry Association (**HSIA - cluster** of microelectronics). Furthermore, I am closely working with the Research Laboratories of the Hellenic Telecommunications Organisation (**OTE**) and the Wireless Telecoms Lab. Of the **U. of Patras** in Greece, the Microwaves Lab of the **NTUA** in Greece, the Mobile and Satellite Communication Research Centre (**MSCRC**) of School of Engineering Design and Technology, **University of Bradford** (UK) and the Dept. of Electronics of **Brunel University** (UK) and the Département Electronique et Télécommunications d'Ecole Nationale Supérieure d'Ingénieurs de **Limoges, France**.

Within the context of the FP7 ICT REWIND Program, two doctoral theses were completed successfully:

PhD theses completed:

[1] "Advanced load balancing routing algorithms for the next generation wireless networks", by P. Tsiakas, Degree awarded July 2010, in collaboration with Brunel University, West London, UK (supervisors: Dr. M. Chadzinicolaou* and Dr. K. Voudouris)

[2] "Development of an antenna system, for a Relay-Based wireless network". By I. Petropoulos, Degree awarded July 2013, in collaboration with the University of Bradford, UK, (supervisors: Prof. R.A.Abd Alhameed, Dr. S. Jones and Dr. K. Voudouris)

On going doctoral work:

At this point of time, Mr. Georgas a PhD candidate works in the area of the development of algorithms to maximise the performance of WiMAX Multi-Hop Relay Base Stations (MRBS), registered at the university of Bradford as full time extra mural student.

(supervisors: Prof. R.A.Abd Alhameed, Dr. J.M. Noras and Dr. K. Voudouris)

A short presentation of the group may be found at <http://users.teiath.gr/kvoud/profile.html>

A large number of MSc dissertations as well as final year projects have been completed using the facilities of his research lab. WiCEAR group has published more than 55 papers in scientific journals and conferences.

Future Research Plans

My next plans for research, is to continue collaboration both with industry and universities abroad on the following areas:

1. Microstrip antennas print on new materials such as liquids for biomedical applications. Biomedical applications seems to take a lot of attention the next decade as a real convergence area that links together biochemists, biologists, chemists, electrical and electronic, engineers, telecoms engineers and medical doctors.
2. Telecommunication networks beyond the 120GHz frontier, would be a very good research area that contains all RF design problems. This research area could be a mayor bid for a european or other grant, in collaboration with big industry players and research / academic institutions.
3. Novel smart antennas that may really be helpful in focusing their beam towards emission, reducing thus all kind of interferences, and making possible an efficient broadband environment.
4. Design of Efficient smart integrated antennas for applications in indoor 60 GHz wireless over fibre (RoF) systems is a new area that I have already start investigating (see publications [4, 26 and 27]), where I plan to intensively continue aiming to an application for a patent.

My belief is that all research outcome has to benefit not only the research record of a university or the individuals, but play the mayor role in new teaching modules and material to old ones. Produced new knowledge has immediately to pass to teaching curricula both in undergraduate and postgraduate studies, serving thus, the goal of increasing teaching quality, and therefore learning outcome.

Before closing this research statement, I would like to note some related activities, that I consider important and include, chairing and involvement in Conferences Technical Programme Committees (TCP), invited talks and membership in various research organisations:

TPC member:

- Future Network & Mobile Summit 2010 Conference, Florence-Italy, 16-18 June 2010
- ICT Mobile Summit, Santander, Spain 10 - 12 June, 2009
- ICT Mobile Summit, Stockholm, 10 -12 Jun. 2008
- IEEE Wireless Communications and Networking Conference 2007, Hong Kong, March 2007
- WSEAS International conf on Engineering Education , Athens, 2005

Chairmanships:

- International Conference on Electromagnetics in Advanced Applications (ICEAA), September 12 – 17, 2011, Torino, Italy
- IEEE Antennas and Propagation in Wireless Communications Conference, 2011. Torino, Italy, 2011
- Future Network & Mobile Summit 2010 Conference, Florence-Italy, 16-18 June 2010
- Telecommunications Committee of the European Council, 1 Jan 2003 to 30 Jun 2003. Brussels

Invited Talks:

- Between the 21st and 25th of January 2013, I delivered a talk on the design of millimetric waves communication front-end components at the Engineering Design and Technology at the University of Bradford United Kingdom.
- Between the 25th and 29th of Jun 2012, I gave invited lectures to the Université de Limoges research centre (XLIM) and the 'Ecole Nationale Supérieure d'Ingénieurs de Limoges (ENSIL) France. My talk

Research Statement of Prof. Dr. Konstantinos N. Voudouris

was about the results of the European research programme entitled “RElay Based Wireless Networks and StandarD” (REWIND) which I was coordinating.

- Invited Speech as the Speaker on advanced materials in the field of Slot array antennas; Stacked antennas for the Focus 222: Tunable, Metamaterial Antennas and FSS based Metamaterials at the upcoming 3rd Annual World Congress of Advance Materials-2014 (WCAM-2014), with the theme “*Dream of Ubiquitous Smartness*”, which will be held during June 6-9, 2014, Chongqing, China.

Active Memberships:

- Associate Member in COST IC0902 “Cognitive Radio and Networking for Cooperative Coexistence of Heterogeneous Wireless Networks”
- Associate Member of the Hellenic Semiconductors Industry (HSIA)
- Member of the Technical Chamber of Greece

Former Memberships:

- Member of WiMAX forum (during REWIND project)
- Member of the Radio Access Spectrum (RAS) Cluster (during REWIND project)
- ETSI TC-ERM committee (during my work at OTE)
- ITU-R (during my work at the Ministry of Communications)
- ENISA, board member (during my work at the Greek Perm. Rep. to the EU)
- EU Council’s Telecoms Group (during my work at the Greek Perm. Rep. to the EU)
- IEEE Member of <Antennas and Propagation> and <Communications> Societies (during my work at the Universities of Bradford (UK), Kent (UK) and Frederick (CY))

1. Publications

A. International Journal papers (with review)

1. K. ANOH, J.M. NORAS, R.A. ABD-ALHAMEED, S.M.R. JONES and K.N. VOUDOURIS, “A new approach for designing orthogonal wavelets for multicarrier applications”, AEU - International Journal of Electronics and Communications, Jan.2014
<http://dx.doi.org/10.1016/j.aeue.2014.01.009>
2. K. ANOH, R.A. ABD-ALHAMEED, Y. DAMA, S.M.R. JONES and K.N. VOUDOURIS, “An Investigation of PMEPR of WPT-OFDM and OFDM Multicarrier Systems” Journal of Communications and Networking, vol. 3, No. 3. Sept 2013, pp. 45-54. ISSN 2160-4258
<http://users.teiath.gr/kvoud/papers/IJCN16Oct2013.pdf>
3. K.O.O. ANOH, R. A. ABD-ALHAMEED, Y. A. S. DAMA, S. M. R. JONES, T. S. GHAZAANY, J. RODRIGUES and VOUDOURIS K. N., “Improved QO-STBC OFDM System Using Null Interference Elimination, International Journal of Advanced Computer Science and Applications”, Vol. 4, No. 8, 2013, pp. 249-253. U.S ISSN : 2156-5570(Online) U.S ISSN : 2158-107X(Print)
<http://thesai.org/Publications/ViewIssue?volume=4&issue=8&code=IJACSA>
4. N. ATHANASOPOULOS, D. MAKRIS, and K. VOUDOURIS, “A 60 GHz Planar Diplexer Based on Substrate Integrated Waveguide Technology,” Active and Passive Electronic Components, Hindawi, vol. 2013, Article ID 948217, 6 pages, 2013.
<http://dx.doi.org/10.1155/2013/948217>
5. S. MIKROULIS, I. PETROPOULOS, K. VOUDOURIS, "Efficient smart integrated antennas for applications in indoor 60 GHz wireless over fiber systems", Microelectronic Engineering, Elsevier B.V., April 2013, ISSN 0167-9317, 10.1016/j.mee.2013.03.166.
<http://dx.doi.org/10.1016/j.mee.2013.03.166>
6. I. PETROPOULOS, N. ATHANASOPOULOS, K. VOUDOURIS, R.A.A. ALHAMEED and S.M R JONES, “Phased Array Antenna Receives 4G Networks”, Microwaves and RF, PENTON Publisher, NewYork, issue November 2012.
<http://mwrf.com/systems/phased-array-antenna-receives-4g-networks>
7. K. VOUDOURIS, N. ATHANASOPOULOS, P TSIKAKAS, I. GEORGAS, G. AGAPIOU, A. RIGAS, D. MANOR, "Performance Verification of a Prototype WiMAX Relay Station", IET Special Issue on Energy Efficient and Reconfigurable Transceivers, Institution of Engineering and Technology (IET), pp 176-180, 2011
<http://dx.doi.org/10.1049/iet-smt.2011.0101>
8. I. PETROPOULOS, K. VOUDOURIS, R.A. ABD-ALHAMEED, S.M.R. JONES, and N. ATHANASOPOULOS, “A Novel Design of Microstrip Arrays for Relay-Based Wireless Network”, International Journal of Antennas and Propagation, Hindawi, Volume 2011 (2011), Article ID 870183, 10 pages,
<http://dx.doi.org/10.1155/2011/870183>
9. K. VOUDOURIS, N. ATHANASOPOULOS, P. TSIKAKAS, A. MEIR, G. AGAPIOU, “Prototype Relay Station for WiMAX wireless networks”, MICROWAVES & RF, Jan.11, PENTON Publisher, NewYork, p.p. 68-75
<http://mwrf.com/systems/relay-extends-wimax-service>

10. K. VOUDOURIS, N. ATHANASOPOULOS, A. MEIR, D. MANOR, P. TSIKAKAS, I. GEORGAS, I. PETROPOULOS, and G. AGAPIOU, "2x2 Switch Matrix for WiMAX Relay Station Applications", IEEE Microwave and wireless components letters (MWCL), 2011, p.p. 424 -7
<http://dx.doi.org/10.1109/APWC.2011.6046746>
11. G. AGAPIOU, K. VOUDOURIS, G. HELIOTIS, I. CHOCHLIUROUS, "Reconfigurable Optical and Wireless Mesh Networks", The Journal of the Telecommunications Professionals, vol.3 part 4, Dec. 2009, p.p. 39 – 42
www.fitce.org/congress/2008/paper/32.pdf
12. A.S. SPILIOPOULOU, I.P. CHOCHLIUROUS, K.N. VOUDOURIS, G. AGAPIOU AND G. HELIOTIS , "Mobile TV in the European Market Sector: Opportunities and Limitations", The Journal of the Telecommunications Professionals, . vol.3 part 2, Jun. 2009, p.p. 27 – 30
www.fitce.org/congress/2008/paper/23.pdf
13. P. STATHOPOULOS & K. VOUDOURIS "WiFi radio-propagation measurements and simulation, based on COST 231 one-slope model", WSEAS Transactions on Communications, (2006), Issue 9, Vol.5, pp. 1642-7
<http://www.scopus.com/record/display.url?eid=2-s2.0-33747049261&origin=resultlist>
14. E. SAPOUNTZIS, J. SAPOUNTZIS and K. VOUDOURIS "WiFi Radio coverage Measurements for eCampus Application Networks", WSEAS Transactions on Information Science and Applications, Issue 4, Vol. 3, Apr. 2006 p. 766 – 70
<http://www.scopus.com/record/display.url?eid=2-s2.0-33645135604&origin=resultlist>
15. K. VOUDOURIS, 'Re-use of public sector information; a new pan European broadband content market for information society', WSEAS Transactions on Advances in Engineering Education, Issue 1, Vol. 3, Jan. 2006 p. 59 – 62
<http://users.teiath.gr/kvoud/pubs/130719.zip>
16. K. VOUDOURIS and P. GRAMMATIKAKIS, 'Power Density Measurements on Single Antenna Mast installation Sites', WSEAS Transactions on Communications, Issue 1, Vol. 5, Jan. 2006 p. 123 – 29
<http://www.scopus.com/record/display.url?eid=2-s2.0-33645132520&origin=resultlist>
17. K. VOUDOURIS. 'Networks and Information Security Policies and Measures in Europe', WSEAS Transactions on Systems, Issue 7, Vol. 4, Jul. 2005, p. 958 – 64
<http://www.scopus.com/record/display.url?eid=2-s2.0-22944487644&origin=resultlist>
18. K.VOUDOURIS and J.M.NORAS, 'Effects of Amplitude, Phase and Frequency Imperfections on the Performance of a Direct Conversion Receiver (DCR) for Personal Communication Systems', IEEE, Microwave and Guided Wave Letters, vol. 3, no. 9, Sep. 1993, p. 313-15
<http://dx.doi.org/10.1109/75.244863>
19. C. BACHELOR, K.VOUDOURIS and R.J. LANGLEY, 'Dual mode and stacked concentric ring patch antenna arrays', Electronics Letters, 22nd July 1993, vol.29, no.15, p.1319-20
<http://dx.doi.org/10.1049/el:19930884>

B. Book Chapters (with review)

20. K. VOUDOURIS, P. TSIKAKAS, N. ATHANASOPOULOS, I. GEORGAS, N. ZOTOS AND CH. STERGIPOULOS, (2012). "A WiMAX Network Architecture Based on Multi-Hop Relays", Quality of Service and Resource Allocation in WiMAX, Roberto C. Hincapie and Javier E. Sierra (Ed.), ISBN: 978-953-307-956-1, InTech

<http://dx.doi.org/10.5772/27930> (“1841 downloads”)

21. M. PATINIOTAKIS, ST. PERDIKOURIS, G. AGAPIOUI, K. VOUDOURIS, E. DIMITRIADOU, I. FREMIS3, A. IOANNOU, “Mesh Wi-Fi Networks: Architectures and Experimental Results” chapter V in Wireless Technologies for Ambient Living and Health care: Systems and Applications, IGI Global publication, (pp. 73-87). Hershey, 2010
<http://dx.doi.org/10.4018/978-1-61520-805-0.ch005>
22. A. RIGAS, M. PATINIOTAKIS, G. AGAPIOUI, K. VOUDOURIS, E. DIMITRIADOU, “Performance of WiMAX Networks”, chapter VI in Wireless Technologies for Ambient Living and Health care: Systems and Applications, IGI Global publication, (pp. 88-101). Hershey, 2010
<http://dx.doi.org/10.4018/978-1-61520-805-0.ch006>
23. J. CHOCHLIOUROS, A. SPILIOPOULOU, S. CHOCHLIOUROS and K. VOUDOURIS , “European E-Signatures Solutions on the Basis of PKI Authentication Technology”, chapter XVIII in Socioeconomic and Legal Implications of Electronic Intrusion, IGI Global publication, , edited by Dr.Politis, Dr.Kozyris, and Dr.Iglezakis, 2009, pp. 291 -305
<http://dx.doi.org/10.4018/978-1-60566-204-6.ch018>
24. K.N. VOUDOURIS, et.al. “Developing an Innovative Multi-hop Relay Station Software Architecture in the Scope of the REWIND European Research Programme”, SPRINGER Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, 1, Volume 13, Mobile Lightweight Wireless Systems, Pages 160-172
http://dx.doi.org/10.1007/978-3-642-03819-8_16
25. I. CHOCHLIOUROS, A. MOR, K. VOUDOURIS, O. AMRANI and G. AGAPIOUI, “A Mobile Multi-hop Relay Base Station (MRBS) – Relay Station (RS) Link Level Performance of Coding/Modulation Schemes, on the Basis of the REWIND Research Program”, SPRINGER Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, 1, Volume 13, Mobile Lightweight Wireless Systems, Pages 93-102, doi 10.1007/978-3-642-03819-8_10,
http://dx.doi.org/10.1007/978-3-642-03819-8_10

C. International Conference papers with review:

26. I. PETROPOULOS, K. VOUDOURIS, R.A.A. ALHAMEED, S.M.R. JONES, “Phased Array Antenna Suitable for a Relay-aided WiMAX Network”, 2013 Loughborough Antennas & Propagation Conference, 11-12 November 2013, Loughborough, UK
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6711964>
27. I. PETROPOULOS, S. MIKROULIS, A. BOGRIS, H. SIMOS, K. VOUDOURIS, “Novel 60 GHz CPW array antennas with beam-forming features for indoor wireless over fiber networks”, Proc. SPIE 8645, Broadband Access Communication Technologies VII, Feb., 2013
<http://dx.doi.org/10.1117/12.2000414>
28. S. MIKROULIS, I. ALDAYA, I. PETROPOULOS, E. GIACOUMIDIS, K. VOUDOURIS, I. TOMKOS, “Investigation on a low-cost single wavelength converged wired-60 GHz wireless OFDM-based system employing a photonic patch antenna. Proc. SPIE 8645, Broadband Access Communication Technologies VII, Feb. 2013
<http://dx.doi.org/10.1117/12.2000413>
29. N. ATHANASOPOULOS, D. MAKRIS, K. VOUDOURIS, "Design and Development of 60 GHz Millimeter-wave Passive Components using Substrate Integrated Waveguide Technology", in 2nd PACET (Panhellenic Conference on Electronics and Telecommunications), Thessaloniki, Greece, 16-18 March 2012

http://www.pacet.gr/index_htm_files/S42_.pdf

30. N. ATHANASOPOULOS, D. MAKRIS, K. VOUDOURIS, "Millimeter-wave Passive Front-End based on Substrate Integrated Waveguide Technology", in 2012 Loughborough Antennas & Propagation Conference, pp.1-5, Loughborough, United Kingdom, 12-13 November 2012
<http://dx.doi.org/10.1109/LAPC.2012.6402998>
31. MAKRI, R.A , TSENES, P.A, ECONOMOU, D.A, PAPANANOS, Y.A, DERVENIS, D.B, BIRBAS,M.C, KIKIDIS, J.C, PALIOURAS, V.D, KALIVAS, G.D, BIRBAS, A.D, KARAIVAZOGLU, P.E, STRATAKOS, Y.F, KORINTHIOS, J.F, SISKOS, S.G, XATZOPOULOS, A.G, KOMNINOS, J.H, KATSIKAS,S.H, VOUDOURIS, K. , RIGAS, A.J, AGAPIOU, G.J, RAXIS, P., "Next generation millimeter wave backhaul radio: Overall system design for GbE 60GHz PtP wireless radio of high CMOS integration", 2011 18th IEEE International Conference on Electronics, Circuits, and Systems, pp. 338- 341, ICECS 2011
<http://dx.doi.org/10.1109/ICECS.2011.6122282>
32. N. ATHANASOPOULOS, J. PETROPOULOS, K VOUDOURIS, "A Phased Array Unit for Adaptive Backhauling in WiMAX Relay Networks", International Conference on Electromagnetics in Advanced Applications (ICEAA), September 12 – 17, 2011, pp.94-97, Torino, Italy
<http://dx.doi.org/10.1109/ICEAA.2011.6046334>
33. N. ATHANASOPOULOS, J. PETROPOULOS, K VOUDOURIS, "2x2 Switch Matrix for a prototype WiMAX Relay Station", International Conference on Electromagnetics in Advanced Applications (ICEAA), September 12 – 17, 2011, pp.90-93, Torino, Italy
<http://dx.doi.org/10.1109/APWC.2011.6046746>
34. N. ATHANASOPOULOS, D. MAKRIS, and K. VOUDOURIS, "5th Order Millimeter-wave Substrate Integrated Waveguide Band Pass Filters, International Conference on Electromagnetics in Advanced Applications - IEEE Antennas and Propagation in Wireless Communications Conference, 2011. pp.98-101 Torino, Italy
<http://dx.doi.org/10.1109/ICEAA.2011.6046335>
35. N. ATHANASOPOULOS, D. MAKRIS, and K. VOUDOURIS, "Development of a 60 GHz Substrate Integrated Waveguide Planar Diplexer", IEEE MTT-S International Microwave Workshop Series on Millimeter Wave Integration Technologies, pp.128-131, 15-16 Sept. 2011 Barcelona Spain
<http://dx.doi.org/10.1109/IMWS3.2011.6061855>
36. G. AGAPIOU, A. RIGAS, S. AGAPIOU, K. VOUDOURIS and S. MIKROULIS, "Backhauling and access means through a 60 GHz developed prototype" 50th FITCE International Congress, 31/8 -3/9 201
<http://dx.doi.org/10.1109/FITCE.2011.6133433>
37. N. ATHANASOPOULOS, P. TSIKAKAS, K. VOUDOURIS, I. GEORGAS, AND G. AGAPIOU, "Multi-hop Relay in Next Generation Wireless Broadband Access Networks An Overview", 2nd International ICST Conference on Mobile Lightweight Wireless Systems, 10-12 May 2010, Barcelona, Spain
http://dx.doi.org/10.1007/978-3-642-16644-0_47
38. I. GEORGAS, I. PETROPOULOS, N. VOUDOURIS, P. TSIKAKAS, N. ATHANASOPOULOS, M. COHEN, B. CYZS AND G. AGAPIOU, "Relay vs. Repeater Architectures in WiMAX", 6th International ICST conference on mobile multimedia communications- MOBEMEDIA, Lisbon-Portugal, 6-8 Sept 2010
<http://www.scopus.com/record/display.url?eid=2-s2.0-84873869273&origin=resultlist>

39. N. ATHANASOPOULOS, P. TSIAKAS, K. VOUDOURIS, D. MANOR, A. MOR, G. AGAPIOU, “An IEEE802.16j prototype Relay Station Architecture”, IEEE MELECON 2010 Conference Valtetta-Malta, 25-28 April 2010
<http://www.scopus.com/record/display.url?eid=2-s2.0-77954275789&origin=resultslist>
40. P. TSIAKAS, A. DOR, K. VOUDOURIS, M. HADJINICOLAOU: "Load Balancing in Limited Intra-Cell Interference (LICI) Networks Based on Maximum Graph-Flow Algorithms", 2009 IEEE International Conference on Ultra Modern Telecommunications, IEEE ICUMT 2009, pp.1-5, St-Petersburg, Russia, October 12-14, 2009
<http://dx.doi.org/10.1109/ICUMT.2009.5345451>
41. J. CHOCHLIOUROS, A. MOR, K. VOUDOURIS et.al., “A Multi-Hop Relay Station Software Architecture Design on the Basis of the WiMAX IEEE 802.16j Standard”, IEEE Vehicular Technology Conference (VTC), Barcelona, 26 – 29 April 2009
<http://dx.doi.org/10.1109/VETECS.2009.5073308>
42. K. VOUDOURIS, et.al., “Developing an Innovative Multi-Hop Relay Station Software Architecture in the Scope of the REWIND European Research Programme”, 1st International Conference on Mobile Lightweight Wireless Systems, Athens, Greece, May 18-20, 2009
http://dx.doi.org/10.1007/978-3-642-03819-8_16
43. A.S. SPILIOPOULOU, I.P. CHOCHLIOUROS, K.N. VOUDOURIS, G. AGAPIOU & G. HELIOTIS (2008). “Mobile TV in the European Market Sector: Opportunities and Limitations”. FITCE proceedings 2008, London, UK, September 22-24, 2008 (pp.35-38).
<http://www.scopus.com/record/display.url?eid=2-s2.0-68649113076&origin=resultslist>
44. P. SPANOS & K. VOUDOURIS, “Electromagnetic radiation on GSM base station antenna Human exposure & reference levels”, 12th WSEAS International Conference on COMMUNICATIONS, Heraklion, Greece, July 23-25, 2008, p.p. 35-40
<http://www.wseas.us/e-library/conferences/2008/crete/communications/02-com.pdf>
45. G. AGAPIOU, K. VOUDOURIS, G. HELIOTIS, I. CHOCHLIOUROS, “Reconfigurable Optical and Wireless Mesh Networks”, FITCE proceedings 2008, London, UK, September 22-24, 2008 (pp.47-49)
<http://www.fitce.org/congress/2008/paper/32.pdf>
46. G. AGAPIOU, T. DOUKOGLU, K. VOUDOURIS and J. CHOCHLIOUROS, “Broadband Wireless Technologies for the delivery of Converged Services”, FITCE proceedings, 2007
<http://users.teiath.gr/kvoud/pubs/130719.zip>
47. T. TSOURAKIS and K. VOUDOURIS, ‘WiMax Network Planning and System’s Performance Evaluation’, IEEE Wireless Communications and Networking Conference 2007, Hong Kong, March 2007, p.p. 1950 – 55
<http://dx.doi.org/10.1109/WCNC.2007.365>

48. K. VOUDOURIS, 'Experimental simulation of fading, and radio communications transmission prediction software, aiding microwave teaching', 16th INTERNATIONAL CONFERENCE ON MICROWAVES, RADAR AND WIRELESS COMMUNICATIONS (MIKON-2006), Kraków, Poland, May 2006, IEEE catalogue Number 06EX1319, Conf. Proceedings, vol.1, pp. 372-5
<http://dx.doi.org/10.1109/MIKON.2006.4345194>
49. K. VOUDOURIS and P. GRAMMATIKAKIS, 'Radiation Measurements at Short Wave Antennae Park', 13th International Conference on Telecommunications (ICT-2006), Funchal, Madeira island, Portugal, May 2006, - IEEE and IEE supported Conference, ISBN: 972-98368-4-1
<http://users.teiath.gr/kvoud/pubs/130719.zip>
50. P. STATHOPOULOS & K. VOUDOURIS "Use of least square approximation of the attenuation factor -n in the COST 231 One-Slope Model", 10th WSEAS, International Conference Proceedings on COMMUNICATIONS (CSCC-2006), Athens, Jul. 2006, pp448-452
<http://users.teiath.gr/kvoud/pubs/130719.zip>
51. E. SAPOUNTZIS, J. SAPOUNTZIS and K. VOUDOURIS , "Radiocoverage Measurements of a Wireless Local Area Network", 5th WSEAS Int. Conf. on Electronics, Hardware, Wireless and Optical Communications (EHAC'06), Madrid 18-20 February 2006, p. 512-409
<http://www.wseas.us/e-library/conferences/2006madrid/papers/512-409.pdf>
52. V. TSIRIGGAKIS, K. EFTHIMIATOS, G. KOULOURAS, I. STAVRAKAS, P. KAPIRIS, K. NINOS, G. KATSIMAKLIS, K. VOUDOURIS, K. BANITSAS, K. EFTAXIAS, A. KOULOPOULOS, L. PANAGIOTOPOULOS, C. NOMICOS, "A versatile telemetric system based on mixed Internet and wireless transmission", WSEAS International conf on Engineering Education , Athens, 2005
<http://bura.brunel.ac.uk/handle/2438/2445>
53. K. VOUDOURIS, 'Deployment of new broadband technologies through public sector information', 4th WSEAS International Conference on E-ACTIVITIES (E-Learning, E-Communities, E-Commerce, E-Marketing, E-Governance, Tele-Working) (E-ACTIVITIES '05), Miami, Florida, USA, Nov. 2005, p. 501-166
<http://www.wseas.us/e-library/conferences/2005miami/papers/501-166.pdf>
54. K. VOUDOURIS and P. GRAMMATIKAKIS, 'Electromagnetic Radiation Measurements at Aperture Antennae installation Sites', 5th WSEAS Int. Conf. on APPLIED INFORMATICS AND COMMUNICATIONS (AIC'05), Malta 2005, p. 499-373
<http://www.wseas.us/e-library/conferences/2005malta/papers/499-373.pdf>
55. K. VOUDOURIS, 'The European Networks and Information Security Agency – ENISA', 9th WSEAS, International Conference Proceedings on SYSTEMS (CSCC-2005), Vouliagmeni, Athens, Jul. 2005, p. 497-224
<http://www.wseas.us/e-library/conferences/2005athens/cscs/papers/497-224.pdf>
56. K. VOUDOURIS, 'Networks and Information Security', HELLENIC SOCIETY FOR SYSTEMIC STUDIES Conference, Tripoli, Greece May 2005, p. 36
<http://users.teiath.gr/kvoud/pubs/130719.zip>
57. K. VOUDOURIS 'Electromagnetic wave transmission prediction software and experimental simulation, aiding laboratory classes for electronic engineering students', WSEAS, International Conference Proceedings on Engineering Education, Vouliagmeni, Athens, Jul. 2005, p. 285 -89

<http://www.wseas.us/e-library/conferences/2005athens/ee/papers/507-172.doc>

58. K.VOUDOURIS and P.GRAMMATIKAKIS, "Electromagnetic Radiation Measurements at Olympia Radio Short Wave Antennae Park", WSEAS, International Conference Proceedings on Telecoms and Informatics, Prague Mar. 2005, p. 268-72
<http://www.wseas.us/e-library/conferences/2005prague/papers/493-232.pdf>
59. K.VOUDOURIS and J.M.NORAS, "Direct Conversion Receiver for the TDMA Mobile Terminal", IEE Colloquium on Personal communications, London, Jan. 1993, p.5/1 - 5/4
<http://ieeexplore.ieee.org/iel3/1470/5709/00217824.pdf>
60. J.C. BACHELOR, T.K. CHANG, K. VOUDOURIS and R.J. LANGLEY, "Microstrip Patch antenna operating in higher order modes", International Conf. on Electromagnetics in Aerospace Applications ICEAA-93, Turin, Sep. 1993, p. 435-38
<http://users.teiath.gr/kvoud/pubs/130719.zip>
61. R.J. LANGLEY, J.C. BACHELOR and K.VOUDOURIS, 'Performance of Microstrip Loop Antenna Arrays', Inter. Conf. on Antenna and Propagation ICAP-93, Glasgow Mar. -Apr. 1993, p 724 -727.
<http://ieeexplore.ieee.org/iel3/1182/5873/00224818.pdf?arnumber=224818>
62. R.J. LANGLEY, K. VOUDOURIS and J.C. BACHELOR, "Annular Ring Patch Antennas", IEE Colloquium on Multi-band Antennas, London, Oct. 1992, p. 6/1 - 6/4
<http://ieeexplore.ieee.org/iel3/1507/4998/00193620.pdf?arnumber=193620>
63. K. VOUDOURIS, J.C. BACHELOR and R.J. LANGLEY, "Concentric Ring Antennas for Mobile Communications", 18th Antenna Symposium, QMWC, London, March 1992
<http://users.teiath.gr/kvoud/pubs/130719.zip>
64. K. VOUDOURIS and R.J. LANGLEY, "Microstrip Ring Patches for Mobile Communication Systems", International Conf. on Electromagnetics in Aerospace Applications ICEAA-91, Turin, Sep. 1991, p. 413 – 416
<http://users.teiath.gr/kvoud/pubs/130719.zip>

D. International Conference poster papers with review:

65. PETROPOULOS, K. VOUDOURIS, P. TSIKAKAS, I. GEORGAS, K. VERGOS AND G. AGAPIOU, "A Business Model Analysis for WiMAX Relay Station Networks", Future Network & Mobile Summit 2010 Conference, Florence-Italy, 16-18 June 2010
<http://users.teiath.gr/kvoud/pubs/130719.zip>
66. J. CHOCHLIUROUROS, K. VOUDOURIS, et.al., "Multihop Relay Stations: An MRBS-RS Link-Level Performance", ICT Mobile Summit, Santander, Spain 10 - 12 June, 2009
<http://users.teiath.gr/kvoud/pubs/130719.zip>
67. K. VOUDOURIS, "Relay Based Wireless Network and Standard – REWIND, ICT FP7 project", ICT Mobile Summit, Stockholm, 10 -12 Jun. 2008
ftp://ftp.cordis.europa.eu/pub/fp7/ict/docs/future-networks/projects-rewind-project-factsheet-ga216751_en.pdf

E. National Conference papers with review:

68. N. ATHANASOPOULOS, D. MAKRIS, K. VOUDOURIS, “Design and Development of 60 GHz Millimeter-wave Passive Components using Substrate Integrated Waveguide Technology”, PAnhellenic Conference on Electronics and Telecommunications (PACET) 16-18 March 2012, Thessaloniki, Greece
www.pacet.gr/index_htm_files/S42_.pdf
69. G. AGAPIOU, K. VOUDOURIS, ‘Measurements on WiFi Mesh architectures’, 1st Hellenic Conference of Electronics and Telecommunications – PACET, Patras, 2009
www.pacet.gr/pacet2009/doc/papers/paper-6.pdf
70. Σ. ΝΟΜΙΚΟΣ, Ι. ΠΕΤΡΟΠΟΥΛΟΣ, Δ. ΠΕΝΤΕΡΗ, Κ. ΒΟΥΔΟΥΡΗΣ, Θ. ΣΠΥΡΟΥ Ι. ΔΑΡΖΕΝΤΑΣ, «Έλεγχος ποιότητας στις απαιτήσεις εκτύπωσης των κεραιών του RFID συστήματος», 1ο Πανελλήνιο Συνέδριο Συσκευασίας, 17-18 Μαρτίου 2008
<http://users.teiath.gr/kvoud/pubs/130719.zip>
71. K. VOUDOURIS, “The Council working party on Telecommunication and Information Society Services”, Workshop on Public Sector Information: management and opportunities of re-use, December 10, 2003, Ionian University, Corfu, Greece
<http://users.teiath.gr/kvoud/pubs/130719.zip>
72. K. VOUDOURIS, “Presentation of the work of the Technical Committee on Electromagnetic Compatibility and RadioSpectrum Matters (TC-ERM of ETSI)” Colloquium on EMC, Technical Chamber of Greece, Athens 17 May. 1999
<http://users.teiath.gr/kvoud/pubs/130719.zip>

F. National Journal papers with review:

73. Σ. ΚΩΤΣΟΠΟΥΛΟΣ, Κ. ΒΟΥΔΟΥΡΗΣ, κ.α., "Ελαχιστοποίηση των Προϊόντων Ενδοδιαμόρφωσης στα Συστήματα Κινητής Τηλεφωνίας", Τεχνικά Χρονικά -B, τομ. 8, τευχ. 1, 1988, σελ.123 - 150.
<http://users.teiath.gr/kvoud/pubs/130719.zip>
74. K. ΒΟΥΔΟΥΡΗΣ, "Δορυφορικές κινητές επικοινωνίες με τη χρήση μικροταινιακών κεραιών", ΤΗΛΕ, No 38, Μάιος 1999, σελ.53-56
<http://users.teiath.gr/kvoud/pubs/130719.zip>

G. National Conference without review:

75. Ι. ΠΕΤΡΟΠΟΥΛΟΣ & Κ. ΒΟΥΔΟΥΡΗΣ, «Εφαρμογές μικροταινιακών κεραιών σε συστήματα RFID» Τυπωμένα ηλεκτρονικά και Εφαρμογές στην συσκευασία / RFID, Ημερίδα ΤΕΙ Αθήνας 28-29 Νοεμ. 2008.
<http://users.teiath.gr/kvoud/pubs/130719.zip>
76. K. ΒΟΥΔΟΥΡΗΣ, «Ηλεκτρομαγνητική Συμβατότητα», Ακτινοβολία – Επιπτώσεις στην Υγεία και το Περιβάλλον – Μύθοι και Πραγματικότητα, 15 Απρ. 2008, ΤΕΧΝΙΚΟ ΕΠΙΜΕΛΗΤΗΡΙΟ ΕΛΛΑΔΟΣ (ΤΕΕ)
<http://users.teiath.gr/kvoud/pubs/130719.zip>
77. K. VOUDOURIS, “Non-ionized radiations, and possible hazards to public health”, Greek Physicists Union, Athens, 6 Apr. 2001
<http://users.teiath.gr/kvoud/pubs/130719.zip>
78. K. VOUDOURIS, “Microstrip Patch Antennas in satellite communication systems”, Colloquium on Mobile Communications, Technical Chamber of Greece, 18 Feb. 1998.

<http://users.teiath.gr/kvoud/pubs/130719.zip>

79. K. VOUDOURIS, "Microstrip Patch Antennas for mobile satellite communication systems", Colloquium on Modern Telecommunication Technologies", TEI of Athens 23-24 Jan. 1996.

<http://users.teiath.gr/kvoud/pubs/130719.zip>

H. Doctoral Thesis:

80. K. VOUDOURIS, "Direct Conversion Receiver for Personal Communication Systems", PhD Thesis, University of Bradford, U.K., 1993.

PhD Thesis submitted on March 1993, University of Bradford, U.K.

I. Reports:

More than 50 reports in terms of deliverables of both REWIND and NexGenMiliwave projects, along with internal reviews reports during the period of EU, Telecom NRA, the Ministry and OTE

2. Citations

The scientific work of Dr. Voudouris has been cited in **20** other publications (info derived from Scopus and IEEE Xplore databases), excluding self and co-authors citations, as follows:

- [19] [Batchelor J.C., Voudouris K., Langley R.J.](#), "Dual mode and stacked concentric ring patch antenna arrays", 1993, *Electronics Letters*, (15) 1319–1320

C.10

- I. Son, S.-H., Jeon, S.-I., Kim, C.-J., Hwang, W., "GA-Based design of multi-ring arrays with omnidirectional conical beam pattern", *IEEE Transactions on Antennas and Propagation* 58 (5) , art. no. 5422624 , pp. 1527–1535, 2010
- II. Ares, F., Franceschetti, G., Mosig, J., Vaccaro, S., Vassallo, J., Moreno, E., "Satellite communication with moving vehicles on earth: Two prototype circular array antennas", *J. Microwave and Optical Technology Letters* 39 (1) , pp. 14–16, 2003
- III. AVicente-Lozano, M., Franceschetti, G., Ares-Pena, F.J., Moreno-Piquero, E. "Analysis and synthesis of a printed array for satellite communication with moving vehicles", *J. IEEE Transactions on Antennas and Propagation* 50 (11) , pp. 1555–1559, 2002
- IV. Godara, L.C. "Applications of antenna arrays to mobile communications, part I: Performance improvement, feasibility, and system considerations", *J. Proceedings of the IEEE* 85 (7) , pp. 1031–1060, 1997
- V. Yang Xuebin; Lue Shannwei; Cheng, L.L. "Omnidirectional higher mode microstrip antenna for GPS", *Microwave Conference Proceedings, 1997. APMC '97, 1997 Asia-Pacific*, On page(s): 453 – 455 vol.1 Volume: 1, 2–5 Dec 1997
- VI. Lee, R.Q.; Zimmerman, M.; Lee, K.F. "Enhancement of array gain with stacked parasitic elements", *Antennas and Propagation Society International Symposium, 1994. AP-S. Digest*, On page(s): 468 – 471 vol.1 Volume: 1, 20–24 June 1994

Cited by Patents(4) :

- VII. Bisiules, Peter John ; Yang, Ching-Shun , "ANTENNA ELEMENT FEED PROBE DIELECTRIC SPACER ANTENNA AND METHOD OF COMMUNICATING WITH A PLURALITY OF DEVICES" , Patent No. 7659859

- VIII. Bisiules, Peter John ; Yang, Ching-Shun , "ANTENNA ELEMENT FEED PROBE DIELECTRIC SPACER ANTENNA AND METHOD OF COMMUNICATING WITH A PLURALITY OF DEVICES" , Patent No. 7498988
- IX. Bisiules, Peter John ; Yang, Ching-Shun , "ANTENNA ELEMENT FEED PROBE DIELECTRIC SPACER ANTENNA AND METHOD OF COMMUNICATING WITH A PLURALITY OF DEVICES" , Patent No. 7283101
- X. Bisiules, Peter John ; Yang, Ching-Shun , "Dualband Base Station Antenna Using Ring Antenna Elements" , Patent No. EP1496569

[18] Voudouris K., Noras J.M., "Effects of amplitude, phase, and frequency imperfections on the performance of a direct conversion receiver (DCR) for personal communication systems", 1993, IEEE Microwave and Guided Wave Letters, (9) 313–315

C.4

- I. Gagné, J.-F., Gauthier, J., Wu, K., Bosisio, R.G. T. Low cost architecture of direct conversion digital receiver. *IEEE Proceedings: Microwaves, Antennas and Propagation* 151 (1) , pp. 71–76 .2004
- II. Li, J.; Bosisio, R.G.; Wu, K. "A six-port direct digital millimeter wave receiver", *Microwave Symposium Digest, 1994.*, IEEE MTT-S International, On page(s): 1659 – 1662 vol.3
- III. Ji Li; Bosisio, R.G.; Ke Wu "A six-port direct digital millimeter wave receiver", *Telesystems Conference, 1994. Conference Proceedings.*, 1994 IEEE National, On page(s): 79 – 82
- IV. Ji Li; Bosisio, R.G.; Ke Wu "Computer and measurement simulation of a new digital receiver operating directly at millimeter-wave frequencies", *Microwave Theory and Techniques, IEEE Transactions on*, On page(s): 2766 – 2772 Volume: 43, Issue: 12, Dec 1995

[26] Makri, R.A , Tsenes, P.A, Economou, D.A, Papananos, Y.A, Dervenis, D.B, Birbas, M.C, Kikidis, J.C, Paliouras, V.D, Kalivas, G.D, Birbas, A.D, Karaivazoglou, P.E, Stratakos, Y.F, Korinthios, J.F, Siskos, S.G, Xatzopoulos, A.G, Komninos, J.H, Katsikas, S.H, Voudouris, K. , Rigas, A.J, Agapiou, G.J, Raxis, P., "Next generation millimeter wave backhaul radio: Overall system design for GbE 60GHz PtP wireless radio of high CMOS integration", 2011 18th IEEE International Conference on Electronics, Circuits, and Systems, pp. 338– 341, ICECS 2011

C.1

- I. Enriquez Gonzalez, J.; Begaud, X.; Huyart, B.; Magne, F.; Tchoffo-Talom, F Cross Polarization Level reduction of a millimeter-wave microstrip antenna array *Antennas and Propagation (EuCAP), 2013 7th European Conference on*, On page(s): 2008 – 2012, Volume: Issue: , 8–12 April 2013

[46] T. Tsourakis., K. Voudouris. , "WiMax network planning and system's performance evaluation", 2007, IEEE Wireless Communications and Networking Conference, WCNC, 1950–1955

C.4

- I. Yu Ge; Su Wen; Yew-Hock Ang; Ying-Chang Liang "Optimal Relay Selection in IEEE 802.16j Multihop Relay Vehicular Networks", *Vehicular Technology, IEEE Transactions on*, On page(s): 2198 – 2206 Volume: 59, Issue: 5, Jun 2010

- II. Galvan-Tejada, G.M. "WiMAX urban coverage based on the Lee model and the Deygout diffraction method", Electrical Engineering Computing Science and Automatic Control (CCE), 2010 7th International Conference on, On page(s): 294 – 299
- III. De Bruyne, J.; Joseph, W.; Verloock, L.; Olivier, C.; De Ketelaere, W.; Martens, L. "Field measurements and performance analysis of an 802.16 system in a suburban environment", Wireless Communications, IEEE Transactions on, On page(s): 1424 – 1434 Volume: 8, Issue: 3, March 2009
- IV. Yu Ge; Su Wen; Yew-Hock Ang "Analysis of Optimal Relay Selection in IEEE 802.16 Multihop Relay Networks", Wireless Communications and Networking Conference, 2009. WCNC 2009. IEEE, On page(s): 1 – 6

[33] Athanasopoulos N.C., Makris D.V., Voudouris K.N., "5 th order millimeter-wave Substrate Integrated Waveguide band pass filters", 2011, Proceedings – 2011 International Conference on Electromagnetics in Advanced Applications, ICEAA'11, 98–101

C.1

- V. Aliang, Z., Gao, K., Huang, Y., Liu, L., Shao, Z.H. "A Ka band broadband bandpass substrate integrated waveguide filter", 2012 4th International High Speed Intelligent Communication Forum, HSIC 2012, Proceeding, art. no. 6213008 , pp. 53–55