



DR. ALEXANDROS KALOXYLOS

CURRICULUM VITAE

Personal Information

Date of Birth: 27/4/1971

Nationality: Hellenic

Marital Status: Married, two children

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Current Position

Associate Professor, Department of Informatics and Telecommunications, University of Peloponnese, Greece

Research Experience

2002-TODAY: DEPARTMENT OF INFORMATICS AND TELECOMMUNICATIONS – UNIVERSITY OF PELOPONNESE: ASSOCIATE PROFESSOR (2002-TODAY)

Apart from my teaching activities I have participated in research projects.

Participation in funded research projects:

- H2020: MERLON (Integrated Modular Energy Systems and Local Flexibility Trading for Neural Energy Islands): Senior researcher for the design of an information system needed for the communication of electrical vehicles with the grid. (2019 – Today)
- NATO-OTAN RIWCoS – Reconfigurable Interoperability of Wireless Communications Systems: Researcher for the design of protocols for dynamic reconfigurable heterogeneous networks for mobile and wireless communications used in emergencies. (2007-2008)

2014-2017: HUAWEI GRC- HEAD OF THE RAN DEPARTMENT

My main role was to provide solution for the 5G radio access network and plan, coordinate and lead a team of researchers dealing with related activities.

Participation in key EU funded research projects:

- H2020 METIS-II (Mobile and wireless communications Enablers for the Twenty-twenty Information Society): Actively contributing in the architectural design of the 5G RAN architecture (2014 – 2016)
- H2020 5G-Xhaul: Contributing in innovative design for backhauling solutions for 5G mobile networks (2014 – 2016)

1995-2014: DEPARTMENT OF INFORMATICS AND TELECOMMUNICATIONS, NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS - SCAN LABORATORY - SENIOR RESEARCHER

My main role is the technical co-management, together with Professor Alonistioti – founder of the SCAN Lab, in research activities. The research team consisted of twenty-five undergraduate and post graduate students as well as ICT professionals.

Participation in key research projects:

- IP-FP7 METIS (Mobile and wireless communications Enablers for the Twenty-twenty Information Society): Actively contributing in the design and evaluation of several mechanisms (e.g., Interference Identification, Context enhanced HO, nodes clustering, adaptive spectrum sharing) (2014-2016)
- HUAWEI- “Knowledge-centric Management for versatile radio access network”, Actively contributing in all three study items (i.e., Context extraction for RAT selection, random access and paging mechanisms in UDN environments, Specification of Interfaces) (2013-2014)
- FI-PPP FIspace (Future Internet Business Collaboration Networks in Agri-Food, Transport and Logistics): Actively involved in the design and testing of a novel information system for the agricultural supply chain. (2013 – 2014)
- FI-PPP Smart Agrifood: Actively participating in the overall design, implementation and testing of novel Farm Management Information System (2011 – 2013)
- IP-FP7 UNIVERSELF: Actively involved in the design of an overall network management architecture for autonomic network components. I was also heavily involved in the design of a validation model for the coordination of SON mechanisms (2010-2011)
- STREP – FP7 CONSERN (COoperative aNd Self growing Energy awaRe Networks): Key contributions for the design of a “self-growing” architecture, the development of test cases that were used for demonstration and the design of an algorithm for defining the optimum idle time of sensor nodes. (2010 – 2012)
- IP- FP7 End-to-End Efficiency (E3): Key contributor for the analysis, design, implementation and assessment of novel architectures for cognitive radio systems (2008-2009)
- Greek General Secretary of Research and Technology - DIANA: Main researcher for the design, implementation and evaluation of an advanced RAT selection mechanism for 4G networks (2006-2008)
- IP – FP6 End-to-end Reconfigurability – Phase 2 (E2R II) project: Heavily involved in the analysis, design, implementation and assessment of novel architectures for reconfigurable networks. (2006-2007)
- IST - End-to-end Reconfigurability (E2R): My duties included the analysis, design and trial of architectural designs of reconfigurable devices and supporting system functions (2004 - 2005)
- NoE - ANWIRE: “Academic Network for Wireless Internet Research in Europe”: Researcher studying issues related to wireless internet and reconfigurability (2002-2004)
- IST – MOBIVAS “Downloadable MOBIle Value-Added Services through software radio &

switching integrated platforms): Principal researcher providing architectural solutions for the project and focused on the design of suitable charging/billing mechanisms (2000-2002)

- EURESCOM P919 “UMTS Network Aspects” & P920 “Integrated Fixed and Mobile Systems: Researcher (1998)
- Intelligent Network Application Part-OTE (INAP-OTE) – OTE (January-December 1998): Researcher for the adaptation of the INAP protocol and services for OTE’s Intelligent Network (IN). INAP-OTE has been financed by the Greek incumbent operator Hellenic Telecommunications Organization (OTE). (1998)
- Greek General Secretary of Research and Technology & Siemens S.A. - 101-SYN-96 Optimization of procedures and software development for the control of EWSD switches for N-ISDN Services: Technical Coordinator for the SCAN Lab team (1998)
- ACTS - The Magic WAND (Wireless ATM Network Demonstrator). Researcher for the design and evaluation of mobility management protocols for wireless ATM networks. I also served as WP Leader since September 1997 and technical manager of the SCAN Lab for one year. (1995 – 1998).
- ACTS RAINBOW “Radio Access INdependent Broadband On Wireless”. Researcher for the design and evaluation of mobility management protocols for UMTS (1995 – 1997).

1994-1995: DEPARTMENT OF INFORMATICS UNIVERSITY OF WALES - UK: RESEARCH ASSOCIATE

During the beginning of my career I was employed as a research associate with key contributions in my first EU funded project.

Participation in funded research project:

- ESPRIT-SENDIT: Researcher for the design and implement a protocol for transferring and installation in real time of software for embedded systems as well as the development of a virtual machine for a microprocessor (1994 – 1995)

Academic Experience

2002-TODAY: DEPARTMENT OF INFORMATICS AND TELECOMMUNICATIONS – UNIVERSITY OF PELOPONNESE: ASSOCIATE PROFESSOR

I joined University of Peloponnese in 2002 and apart from my teaching duties I was heavily involved in the establishment of the newly founded University. In this context I was the technical manager for its network operations center, and I was the founder of the Communication Networks and Mobile Systems Laboratory.

Participation in key projects and national initiatives:

- Municipality of Megalopolis – Study for the deployment of WiFi infrastructure in the municipality of Megalopolis: Project Manager (2012-2013)
- Municipality of Megalopolis – Study for the development of an agricultural related information system in the municipality of Megalopolis: Project Manager (2012 -2013)
- Greek General Secretary of Research and Technology – PENED Architecture for always best-connected terminals in 4G mobile systems: Project manager for the department of Informatics and Telecommunications and scientific advisor (2005-2008)

- Greek Information Society- Invitation 84: Promotion of Broadband Networks in the Prefecture of Peloponnese: Project manager for the University of Peloponnese (2005 – 2007)
- Network Operation Center University of Peloponnese: I was the founder and first technical manager of the NOC of the University of Peloponnese. The NOC supported the University's network infrastructure in 5 different cities in the prefecture of Peloponnese (2002-2004)
- Greek Information Society – Tele-education infrastructure for the University of Peloponnese: Technical coordinator for University of Peloponnese for the procurement, installation and administrative support for the main tele-education infrastructure of the University of Peloponnese. (2002-2003)
- Greek Information Society – Computer Laboratories for the University of Peloponnese: Technical coordinator for University of Peloponnese for the procurement, installation and administrative support for the computer laboratories of the University of Peloponnese. (2002-2003)
- Greek Information Society – Network Infrastructure for the University of Peloponnese: Technical coordinator for University of Peloponnese for the procurement, installation and administrative support for the network infrastructure of the University of Peloponnese. (2002-2003)
- Greek Information Society – Advanced Telematics Services for the University of Peloponnese: Technical coordinator for University of Peloponnese for the procurement, installation and administrative support for the telematics services of the University of Peloponnese. (2002-2004)
- EPEAEK – Ministry of Education – Procurement of hardware and software for the Communication Networks and Mobile Systems laboratory – University of Peloponnese (2003-2004): Technical coordinator and founder of the CNMS Laboratory (2003)

Other work-related experience

2000-2002: GREEK UNIVERSITIES NETWORK – GUNET: PROJECT MANAGER

Project manager for the non-for-profit civil company, named GUnet (Greek Universities Networks), founded by all the Higher Education and Academic Institutions of Greece. My responsibilities included the planning of research activities and organization of activities for forty different groups belonging in different institutions. One of my key achievements was the techno-economic analysis of having the Universities to use dark fiber. This study was the first made in Greece and was one of the key triggers that lead to the design and deployment of state-owned dark fibers in several Greek cities.

1999-2000: GREEK ARMY – CORP OF INFORMATICS AND RESEARCH: SOLDIER

During my military service I undertook several responsibilities from training military personnel, managing the local area network for the School of Research and Informatics Officers of the Hellenic Army (SAEP) and I produced a number of studies for the Greek army.

1990-1993: NOC – UNIVERSITY OF CRETE: MEMBER

During my undergraduate studies I became a member of the NOC of the University of Crete. My responsibilities included the support of the equipment and the telecommunication links with all other Universities (during this period University of Crete was the main link of academic

and research institutes with Europe). During 1991-1993, I was the coordinator of the undergraduate students' team.

Editorial board member in journals, TPC member in conferences etc.

- Section Editor, 5G Ref, section Programmable Network Architecture and Protocols, 5G Ref, Wiley (in process)
- Editorial Board Member IEEE Communications Surveys and Tutorials (2006 - 2015)
- Associate Editor International Journal of Computing and Digital Systems (2015-Today)
- Editorial Board Member, Information Processing in Agriculture (IPA), Elsevier (2013 - Today)
- Workshop organizer, 5GArch 2017: 4th International Workshop on 5G Architecture, IEEE ICC 2017
- Panelist on 5G networks, EuCNC 2016
- Teaser Speaker, 5G Networks and Services, CONFIG Workshop 2016, Lisbon
- Keynote speaker IEEE ICC 2015 in London, Workshop on heterogeneous converged networks, "5G-RAN: Fine-tuning the protocol stack for vertical industries"
- Session Chairman CSNDSP 2006
- Publicity Chairman International conference PWC '2003 (Personal Wireless Communications)
- Session Chairman IEEE ICUPC'97.
- Conference TPC member: Special Track on Computer Networks - ACM Symposium on Applied Computing (SAC-CN 2004), E2R Workshop on Reconfigurable mobile systems and networks beyond 3G, collocated with PIMRC-2004 Barcelona, DAIS 2005, MediaWiN 2006, 1st ANWIRE workshop, Pan-Hellenic Conference of Informatics 2007, Third ACM International Workshop on Wireless Multimedia Networking and Performance Modeling (WMuNeP'07), Fourth ACM International Workshop on Wireless Multimedia Networking and Performance Modeling (WMuNeP'08), PIMRC 2008, PIMRC 2009, ACM WMNC 2009, PCI 2009, WMuNeP'09, IEEE PIMRC 2009, WICON 2010, PCI 2010, CSNDSP 2010, QPWSN 2010, IEEE PIMRC 2010, PCI 2011, IEEE ISCC 2011, PIMRC-LPAN-2011, IEEE ISSPIT 2011, Videv 2012, CSNDSP2012, PCI2012, ISWCS2012, IEEE AINA 2013. 2nd IEEE Workshop on Video Everywhere (VidEv 2013), PCI 2013, IEEE PIMRC 2013, IWSON2013, ISCC2013, IEEE APWiMob 2014, PCI2015, VTC 2015, ISCC 2015, PIMRC 2015, Videv 2015, IISA 2015, IEEE APWiMob 2015, PIMRC 2016, PIMRC SAB, PIMRC 2016 Mobile and Wireless, ICT 2016, ISCC 2016, APWiMob 2016, ICC 2017, ICT 2017, ISCC 2017, MobiApps 2017, IEEE CSCN'17, IEEE PIMRC 2017, IoTBDS2018, ICT 2018, ICC WS 2018, SigTelCom 2018, ApWiMob 17, IWSON 2018, IEEE PIMRC 2018, AICT 2018, The Fourteenth Advanced International Conference on Telecommunications, DPNOC18, IEEE ISCC 2018, ApWiMob 18, IEEE CSCN 18, PCI 2018, GIIS 2018, IEEE ICC 19, IOTBDSS2019

Other activities

- IEEE Senior Member
- Member of the task force created by the Greek Ministry of Infrastructures, Transportations and Networks for the deployment of FTTx solutions for the citizens (2009)
- Coordinator of the task force ID3 of the Greek E-business Forum FTTx (Fiber to the Home, Fiber to the Building - www.ebusinessforum.gr) (2007)
- Member of the Greek Scientific Committee for usage of OLPC (One Laptop per Child) Project (2006-2008)
- Member of the advisory committee for the evaluation of projects in the Prefecture of Peloponnese (2002-2003)

- Member of the Scientific Committee for the broadband access that was created by the Special Secretary of the Information Society. The results of this committee were used for the actual deployment of several MAN networks using optical fibers and wireless technologies in several Greek cities. (2002-2003)
- Evaluator for a number of Greek funded research and development projects (Ongoing)

Education

University of Athens - Greece

Ph.D. - Department of Informatics & Telecommunications

Thesis Title: "Location Management in Wireless ATM Networks"

Duration: November 1995 - May 1999

Date of Award: 12 May 1999

Scholarship: co-funding of General Secretary of Research and Technology Greece and INTRAKOM S.A.

Heriot-Watt University, Edinburgh - Scotland

M.Phil. - Electrical and Computer Engineering

Thesis Title: "ESTOPRO – An Estelle to PROMELA Compiler"

Duration: September 1993 – August 1994

University of Crete, Heraklion

B.Sc. Department of Computer Science

Duration: September 1989 – June 1993

Research Interests

- Mobile and wireless communications,
- 5G cellular networks
- V2X communications
- Network management
- Formal specification and verification of network protocols

Awards

Huawei GRC

- Future star award - 2016
- Collective First Prize to the team members establishing the 5GAA and the 5G vehicular network eco-system - 2016
- Award for the performance in the METIS-II project -2016

Skills

Project Management attributes

- ✓ Good track record of managing complex projects.
- ✓ Creating effective, informed and highly motivated teams focused on delivery.
- ✓ Comprehensive understanding of project management methodologies.
- ✓ Accurately identifying key requirements.
- ✓ Motivating team members to own and complete tasks assigned to them.
- ✓ Conflict management and prioritization skills.

Personal attributes

- ✓ Possessing a responsible attitude, tact, patience, and courtesy.
- ✓ Trustworthy
- ✓ Comfortable working on numerous, smaller size pieces of work.
- ✓ Ability to operate under pressure and deliver to demanding deadlines.
- ✓ Achieving results through others.
- ✓ Able to self-start own improvement initiatives.
- ✓ Team player.
- ✓ Capable of working under limited/no supervision.

Publications in books, journals and conferences

I have produced more than 130 publications in book chapters, international journals and conferences and I have received more than 1600 citations.

Book Chapters

1. E. Zervas, A. Kaloxylas and L. Merakos, "LAMPS: Location Agents and Mobile - PNNI Scheme", Appeared in the book "Advances in Informatics", edited by D.I. Fotiadis, S.D. Nikolopoulos and published by World Scientific, 1999, ISBN 981-02-4192-5
2. M. Koutsopoulou, S. Panagiotakis, N. Alonistioti, A. Kaloxylas, "Customized billing for location based services", Lecture notes in Computer Science, Springer-Verlag GmbH, ISSN 0302-9743, Volume 3542/2005, paper selected from IFIP DAIS conference (Distributed Applications and Interoperable Systems), Athens 2006.
3. G. Lambropoulos, N. Passas, A. Kaloxylas and L. Merakos, "Managing Handovers in Integrated WLAN/Cellular Networks", book chapter in "The Encyclopedia of Wireless and Mobile Communications" CRC Press, editor: Borko Funkt, ISBN 1-420-04326-9, December 2007
4. A.Kaloxylas, G. Modeas, N. Passas and G. Lampropoulos, "Radio Resource Management in 4G Mobile Systems", book chapter in "The Encyclopedia of Wireless and Mobile Communications", CRC Press, editor: Borko Funkt, ISBN 1-420-04326-9, December 2007
5. D. Triantafyllopoulou, N. Passas, A. Kaloxylas, "Cross-layer design for cooperative wireless communications", book chapter in "Cooperative Wireless Communications", editors Y. Zhang, H. H. Chen and M. Guizani, book chapter in "Cooperative Wireless Communications", CRC Press, editors: Y. Zhang, H. H. Chen and M. Guizani, ISBN: 142006469X, March 2009.
6. A. Kaloxylas, S. Paskalis, D. Vali, A. Boucouvalas, "Mobility Management and QoS Support in Wireless Environments: Trends and Open issues", Wireless Network Traffic and Quality of Service Support: Trends and Standards, IGI Global edited by Dr. Thomas D. Lagkas, Prof. Pantelis Angelidis, and Prof. Loukas Georgiadis, 2010
7. Laurent Ciavaglia, Zwi Altman, Eleni Patouni, Alexandros Kaloxylas, et al., "Coordination of Self-Organizing Network Mechanisms: Framework and Enablers", Mobile Networks and Management Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering Volume 97, 2012, pp 174-184 (selected from the MONAMI 2011 conference), 2012
8. K. Chatzikokolakis, P. Spapis, M. Stamatelatos, G. Katsikas, R. Arapoglou, A. Kaloxylas, N. Alonistioti, "Spectrum Aggregation in Cognitive Radio Access Networks from power control perspective", book chapter in "Evolution of cognitive networks

and self-adaptive communication systems”, IGI Global edited by Dr. Thomas Lagkas, 2013

9. K. Chatzikokolakis, A. Kaloxylou, et. al, “On the Way to Massive Access in 5G: Challenges and Solutions for Massive Machine Communications”, Cognitive Radio Oriented Wireless Networks, Springer also published in IEEE CrownCom 2015
10. A. Kaloxylou et. al., “Network Slicing”, 5G System Design - Architectural and Functional Considerations and Long-Term Research, Wiley
11. M. Gramaglia, A. Kaloxylou et. al., “E2E Architecture”, 5G System Design - Architectural and Functional Considerations and Long-Term Research, Wiley

International Journals

1. S. Barbounakis, A. Kaloxylou, et. al., Data Analytics for 5G Networks: A complete framework for network access selection and traffic steering, International Journal On Advances in Telecommunications, v 11 n 3&4 2018
2. S. Roger, D. Martín-Sacristán, D. Garcia-Roger, J. Monserrat, P. Spapis, A. Kousaridas, S. Ayaz, A. Kaloxylou, Low-Latency Layer-2 Based Multicast Scheme for Localized V2X Communications, IEEE Transactions on Intelligent Transportation Systems, accepted for publication 2018
3. A. Kaloxylou, P. Keshavamurthy, P. Spapis, C. Zhou, Context aware control schemes for the performance improvement of V2X Network Slices, accepted for publication, International Journal of Advances in Telecommunications, v11, n1&2, 2018
4. A. Kaloxylou, A survey and an analysis of network slicing in 5G networks, IEEE Standards Magazine, vol 2, Issue 1, March 2018
5. P. Magdalinos, S. Barbounakis, P. Spapis, A. Kaloxylou, G. Kyprianides, N. Alonistioti, C. Zhou, A context extraction and profiling engine for 5G network resource mapping, accepted for publication in Computer Communications, 2017
6. S. Barbounakis, A. Kaloxylou, P. Spapis, N. Alonistioti, Context-aware, user-driven, network-controlled RAT selection for 5G networks, Computer Networks, Vol 113, 2017
7. G. Tsoulos, O. Bulakci, D. Zarbouti. G. Athanassiadou, A. Kaloxylou, Dynamic Wireless Network Shaping via Moving Cells: The Nomadic Nodes Case, European Transactions in Telecommunications, 2017
8. P. Marsch, I. Da Silva, O. Bulakci, M. Tesanovic. S. El Ayoubi, T. Rosowski, A. Kaloxylou, M. Boldi, 5G Radio Access Network Architecture – Design guidelines and key considerations, IEEE Communications Magazine, 2016
9. X. An, C. Zhou, R. Trivisonno, R. Guerzoni, A. Kaloxylou, D. Soldani and A. Hecker, On end to end network slicing for 5G, European Transactions in Telecommunications, 2017
10. K. Chatzikokolakis, A. Kaloxylou et., al, A Survey of Location Management Mechanisms and an Evaluation of their Applicability for 5G Cellular Networks, Recent Advances in Communications and Networking Technology, Vol 3, 2016
11. S. Barbounakis, A. Kaloxylou et. al., “Management and Control applications in Agriculture domain via a Future Internet Business-to-Business Platform”, Information Processing in Agriculture, 2015

12. K. Chatzikokolakis, P. Spapis, A. Kaloxylas, N. Alonistioti, "Towards spectrum sharing: Opportunities and technical enablers", accepted for publication in IEEE Communication Magazine, 2015
13. P. Magdalinos, A. Kaloxylas, N. Alonistioti, "Context Monitoring Optimization in Autonomic Networks", Wireless Personal Communications Magazine, Springer, 2014
14. A. Kousaridas, P. Magdalinos, A. Kaloxylas, N. Alonistioti, et al., "Integrating the Self-Growing Concept in a Self-Organizing Wireless Network for Topology Optimization", International Journal of Network Management, 2014
15. A. Kaloxylas et al, "A cloud based farm management system: Architecture and implementation", Elsevier Computers and Electronics in Agriculture, 2014
16. K. Tsagkaris, G. Nguengang, A. Galani, I. Gridabenyahia, M. Ghader, Alex Kaloxylas et al., "A survey of autonomic networking architectures: towards a Unified Management Framework", International Journal of Network Management, Wiley Publishers, October 2013
17. I. Modeas, A. Kaloxylas, L. Merakos, "UDS: A Distributed RAT Selection Mechanism for Heterogeneous Wireless Networks" Wireless Personal Communications, Springer publications, November 2012
18. A. Kaloxylas et al, "Farm management systems and the Future Internet era", Elsevier Computers and Electronics in Agriculture, November 2012
19. K. Nolte, A. Kaloxylas, K. Tsagkaris et al., "The E3 Architecture: Enabling future wireless cellular networks with cognitive and self-x capabilities", (Wiley – Blackwell) International Journal of Network Management, 2011
20. A. Kaloxylas, I Modeas, F. Georgiadis, N. Passas, "Network Selection Algorithm for Heterogeneous Wireless Networks: from Design to Implementation", Journal of Network Protocols and Algorithms, 2009
21. I. Modeas, A. Kaloxylas et al, "Radio Access Selection in integrated UMTS/WLAN networks", International Journal of Communications, Network and System Sciences (IJCNS) vol. 2, no. 9, pp. 805-821, December 2009.
22. D. Triantafyllopoulou, N. Passas, A. Kaloxylas, and L. Merakos, "Coordinated Handover Initiation and Cross-Layer Adaptation for Mobile Multimedia Systems", *IEEE Transactions on Multimedia*, special issue on "Quality-Driven Cross-Layer Design for Multimedia Communications", vol. 11, no. 6, pp. 1131-1139, October 2009.
23. A. Kaloxylas, M. Stamatelatos, A. Boucouvalas, "Mobility Management for Reconfigurable Terminals in Heterogeneous Networks", Mediterranean Journal of Computers and Networks, special issue on Recent Advances in Heterogeneous Cognitive Networks, 2008
24. D. Triantafyllopoulou, N. Passas, A. Salkintzis, and A. Kaloxylas, "A Heuristic Cross-Layer Mechanism for Real-Time Traffic over IEEE 802.16 Networks", *Wiley's International Journal of Network Management*, special issue on "Management Solutions for QoS Support over the Entire Audio-Visual Service Distribution Chain", 7 Aug 2007
25. G. Lampropoulos, N. Passas, A. Kaloxylas, and L. Merakos, "A Flexible UMTS/WLAN Architecture for Improved Network Performance", Springer Wireless Personal Communications Journal, special issue on "Seamless Handover in Next Generation Wireless Mobile Networks", scheduled for April 2007.

26. M. Koutsopoulou, A. Kaloxylos, N. Alonistioti, L. Merakos, "A platform for charging, billing & accounting in future mobile networks", Elsevier Computer Communications Journal, Special Issue, on Emerging Middleware for Next Generation Networks, available online 19 January 2006.
27. A. Kaloxylos, G. Lampropoulos, N. Passas, "A Flexible Mechanism for Service Continuity in 4G Environments", Elsevier Computer Communications Journal, special issue on "End-to-end QoS Provision Advances" Volume 29, Issue 6, Pages 717-729, 31 March 2006.
28. G. Lampropoulos, A. Kaloxylos, N. Passas, Lazaros Merakos "Handover Management Architectures in Integrated WLAN/Cellular Networks", IEEE Communications Surveys and Tutorials, Fourth Quarter 2005 Vol.7 No.4.
29. D. Vali, S. Paskalis, A. Kaloxylos, L. Merakos, "A Survey on QoS Signaling", IEEE Communications Surveys and Tutorials, Vol.6 No.4 Fourth Quarter 2004.
30. M. Koutsopoulou, A. Kaloxylos, et al, "Charging, Accounting & Billing Management in Mobile Telecommunication Networks and the Internet", IEEE Communications Surveys and Tutorials, Vol 6, No 1, 2004.
31. N. Passas, S Paskalis, A. Kaloxylos et al, "Enabling Technologies for the always best connected concept", Wireless Communications and Mobile Computing Journal, Wiley Interscience, Q1, 2004.
32. M. Koutsopoulou, A. Kaloxylos, N. Alonistioti, P. Philipopoulos, "An integrated Charging, Accounting & Billing management platform for the support of innovative business models in Mobile Networks" International Journal of Mobile Communications, Vol2 No4, 2004.
33. S. Paskalis, A. Kaloxylos, E. Zervas, L. Merakos, "An efficient RSVP-Mobile IP Interworking Scheme", Mobile Networks and Applications Journal (MONET), June 2003.
34. A. Kaloxylos, E. Zervas, L. Merakos, "Location Management in Wireless ATM Customer premises Networks", Computer Communications Journal, Special Issue on Recent Advances In Mobile Communication Networks, Vol. 23, No 5, March 2000.
35. E. Zervas, A. Kaloxylos, L. Merakos, "An Efficient Location Management Protocol for Wireless ATM Customer Premises Networks", Mobile Networks and Applications Journal (MONET), Special Issue in Management of Mobility in Distributed Systems, Vol. 6, Issue 2, March 2001.
36. A. Kaloxylos, H. Hansen, L. Merakos, "Mobility Management for Large Private Wireless ATM Installations", ACM Mobile Communication Review Vol. 3, No 1, January 1999.
37. A. Kaloxylos, S. Hadjiefthymiades and L. Merakos, "Mobility Management and Control Protocol for Wireless ATM Networks", IEEE Network Magazine, Special Issue on PCS Network Management, May 1998.

Conferences

1. A. Kaloxylos, "Application of Data Mining in the 5G Network Architecture", the Thirteen International Conference on Digital Communications, ICDT 2018, Athens, Greece

2. Sandra Roger, David Martín-Sacristán, David Garcia-Roger, Jose F. Monserrat, Panagiotis Spapis, Chan Zhou and Alexandros Kaloxylou, "Forced Inter-Operator Handover for V2X Communication in Multi-operator Environments with Regional Splitting", IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, Valencia, 2018
3. P. Spapis, C. Zhou, A. Kaloxylou, On V2X Network Slicing: Using Context information to improve mobility management, INNOV 2017, Athens Greece – **Best paper award**
4. A. Kaloxylou, "Network slicing for 5G networks: A survey and an analysis of research trends", accepted in PCI 2017
5. A. Kaloxylou, "LIVA: An efficient local breakout scheme for V2V communications", accepted in PCI 2017
6. G. Tsoulos, O Bulakci, D. Zarbouti, G. Athanasiadou, A. Kaloxylou, Performance of Vehicular Nomadic Node Operation in Realistic Multicellular Wireless Networks, accepted IEEE VTC 2017
7. Oemer Bulakci, Alexandros Kaloxylou, Joseph Eichinger, Chan Zhou, RAN Moderation in 5G Dynamic Radio Topology, accepted IEEE VTC 2017
8. Taylan Sahin, Oemer Bulakci, Panagiotis Spapis, Alexandros Kaloxylou, Flexible Network Deployment in 5G: Performance of Vehicular Nomadic Nodes, accepted IEEE VTC 2017
9. I. Da Silva, G. Mildh, A. Kaloxylou et al, Impact of Network Slicing on 5G Radio Access Networks, EuCNC 2016
10. Chan Zhou, Malte Schellmann, Egon Schulz, Alexandros Kaloxylou, "Building versatile network upon new waveforms", ETSI WORKSHOP ON FUTURE RADIO TECHNOLOGIES – AIR INTERFACES, 27-28 January 2016, Sophia Antipolis, France
11. K. Chatzikokolakis, A. Kaloxylou, P. Spapis, C. Zhou, O. Bulakci, N. Alonistioti, "Context Aware location management of groups of devices in 5G Networks", IFIP International conference on autonomous infrastructure management and security, AIMS 2016, Munich, Germany
12. K. Chatzikokolakis, A. Kaloxylou, et. al, "On the Way to Massive Access in 5G: Challenges and Solutions for Massive Machine Communications", IEEE CrownCom 2015
13. Chatzikokolakis K.; Spapis P.; Kaloxylou A.; Beinas G.; Alonistioti N.; "Spectrum sharing: A coordination framework enabled by fuzzy-logic," International Conference on Computer, Information and Telecommunication Systems (CITS), 15-17 July 2015
14. Stamatelatos, M., Kaloxylou, A., Paraskevopoulos, A. Alonistioti, N.: A Generic Scheme and a Validation Model for SON Coordination in 5G Networks. The 6th International Conference on Information, Intelligence, Systems and Applications (IISA), (2015).
15. P. Marsch, O. Queseth, S. E. Elayoubi, M. Maternia, M. Uusitalo, R. Ruismaki, M. Tesanovic, A. Kaloxylou, I. da Silva, M. Boldi, "5G Radio Access Network Design - A Brief Overview on the 5G-PPP Project METIS-II", EUCNC 2015
16. Panagiotis Spapis, Konstantinos Chatzikokolakis, Alexandros Kaloxylou and Nancy Alonistioti, "Using SDN as a key enabler for co-primary spectrum sharing", 5th International Conference on Information, Intelligence, Systems and Applications, IISA 2014

17. Sokratis Barmpbounakis, Panagiotis Spapis, Nancy Alonistioti, Alexandros Kaloxylas, "Compass: A context-aware, user-oriented RAT selection mechanism in heterogeneous wireless networks", IARIA MOBILITY 2014
18. Alexandros Kaloxylas, Sokratis Barmpbounakis, Panagiotis Spapis, Nancy Alonistioti, "An efficient RAT selection mechanism for 5G cellular networks", International Wireless Communications and Mobile Computing Conference, IWCMC 2014
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20. A. Kaloxylas et al., "The use of future Internet technologies in the Agriculture and food Sectors: Integrating the supply chain", HAICTA 2013
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