

Evangelos A. Kosmatos

Personal Information

Date of birth: 21-5-1979 (Argostoli, Kefalonia, Greece)
Address: 92 Makris Str., Egaleo, Athens
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Studies

2003 - 2008 Ph. D Degree from the Faculty of Electrical and Computer Engineering, National Technical University of Athens in the area of "Algorithms supporting QoS in multimedia networks"

1997 - 2002 Diploma in Electrical and Computer Engineering from the Faculty of Electrical and Computer Engineering of the National Technical University of Athens

Research Interests

- Optical Networks (WDM-PON, EPON, GPON)
- Wireless and Mobile Networks (WLAN, WiMax, UMTS, LTE)
- Multimedia Networks
- Database Systems
- Web Development (EJB, JSP, Spring, Hibernate)
- Object Oriented Programming
- Content Delivery Networks
- Mechanisms, Protocols and Algorithms supporting Quality of Service in wireless networks
- Sensor - Actuator Networks - Internet of Things

Working and Research Experience

2002 – 2003 Participation in research project IST AQUILA (Adaptive Resource Control for QoS Using an IP-based Layered Architecture). The project aimed to develop an architectural model for supporting quality of service in broadband networks. In the context of the program, a distributed bandwidth broker, a network management system and a reconfigurable terminal were developed.

2002 – 2004 Research associate of Intrasoft International in a web project involving the electronic submission and management of proposals within the 6th European Research Framework.

2002 – 2005 Participation in research project IST ENAMORADO (Enabling Nomadic Agents in a Multimedia-ORiented Architecture of Distributed Objects). The program aims to produce, manage and transmit multimedia information through heterogeneous integrated broadband networks (UMTS, GPRS, WLAN) and toward heterogeneous terminals (mobile phones, laptops, reprogrammable terminals). During the project a system for the management of different networks and for the selection of the appropriate media format for transmission to the terminals was designed and implemented.

2006 Technical Consultant of Cosmoline, Telepassport and Athens International Airport in design and development of their security policies and procedures.

2006 – 2007 Technical Consultant of the Hellenic Ministry of Transport and Communications in the area of telecommunications. During the project network related proposals were prepared, while projects under development were supervised.

2006 – 2007 Design, development and implementation of Siemens TNMS Adapter for the bidirectional communication between Cramer NMS platform and Siemens TNMS system for the management of Vodafone Greece network.

2006 – 2008 Participation in research project IST SMS (Simple Mobile Services). The program aims to create innovative tools that will help identify a new class of services which will allow individuals and small businesses to become service providers. In the context of the project the environment for the creation of simple and integrated services and the environment for the access to services by mobile users were designed and developed.

2007 – 2008 Customization of Siemens TNMS Adapter implemented in previous year for the bidirectional communication between Cramer NMS platform and Siemens TNMS system for the management of Vodafone Portugal network.

2007 Fellow of the Technological Educational Institute (TEI) of Piraeus, Department of Electronic Computer Systems on the course of “Object Oriented Programming”.

2008 - 2011 Senior Research Associate at the Intelligent Communications and Broadband Networks (ICBNet) Laboratory of the National Technical University of Athens.

2008 - 2010 Lecturer (Presidential Decree 407/80) in the Department of Telecommunication Science and Technologies (University of Peloponnese), full assignment for the graduate course: “Implementation of Network Infrastructure and Services”.

2009 - 2010 Lecturer (Presidential Decree 407/80) in the Department of Telecommunication Science and Technologies (University of Peloponnese), full assignment for the graduate course “Web Design”.

2010 – 2011 Participation in research project IST inCASA (Integrated Network for Completely Assisted Senior Citizens’ Autonomy). The inCASA project aims to create citizen-centric technologies and a services network to help and protect frail elderly people, prolonging the time they can live well in their own home. During the project solutions/services for health/environment monitoring and the collection and analysis of data are integrated in order to profile user behaviour, implement customized intelligent multilevel alerts/communication services.

2009 - 2011 Lecturer in the Technological Educational Institute (TEI) of Athens, full assignment for the graduate course “Multimedia Applications”.

2009 - 2011 Lecturer (Presidential Decree 407/80) in the Department of Telecommunication Science and Technologies (University of Peloponnese), full assignment for the graduate course “Multimedia Compression and Delivery”.

2008 - 2010 Performance, analysis and supervision of over 200 sets of RF electromagnetic field measurements (27 MHz – 3 GHz) for evaluation of exposure at publicly-accessible areas near transmitters as a freelancer. Measuring equipment: a) Spectrum analyzer NARDA SRM-3006 with isotropic antenna 27 MHz – 3 GHz, b) Spectrum analyzer SPECTRAN HF-6065 with isotropic antenna BicoLOG 20300. Indicative customers: Adidas Group, Kosmocar, European Dynamics, O.W. Bunker Malta Ltd, Hellenic Court of audit, Home Trade Ltd.

2012 - 2013 Lecturer (Presidential Decree 407/80) in the Department of Telecommunication Science and Technologies (University of Peloponnese), full assignment for the graduate course “Database Systems”.

2011 - today Senior Research Associate at the Communication Networks and Applications Laboratory of the University of Peloponnese in the Department of Telecommunication Science and Technologies

2009 - today Fellow of the Technological Educational Institute (TEI) of Piraeus, Department of Electronic Computer Systems on the courses of "Object Oriented Programming", "Database Systems" and "Software Engineering".

2011 - now Technical Manager of Sine Technologies Laboratory of Electromagnetic Measurements (according to EΛOT EN ISO/IEC 17025). Supervision, analysis and evaluation of over 800 measurement sets of electromagnetic field measurements. Responsible for the implementation of procedures defined in ISO/IEC 17025.

Publications in International Journals

- T. Orphanoudakis, E. Kosmatos, J. Angelopoulos, A. Stavdas, "Exploiting PONs for Mobile backhaul", IEEE Communications Magazine, February 2013, Vo. 51, Is. 2.
- E. Kosmatos, N. Tselikas, A. Boucouvalas, "Integrating RFIDs and Smart Objects into a Unified Internet of Things Architecture", Journal of Advances in Internet of Things, April 2011, Vol. 1, No. 1
- T. Orphanoudakis, H.-C. Leligou, E. Kosmatos, A. Stavdas, "Future Internet infrastructure based on the transparent integration of access and core optical transport networks", Journal of Optical Communications and Networking, July 2009, Vol. 1, Is. 2.
- C. A. Papagianni, E. A. Kosmatos, G. P. Sotiropoulos, D. K. Styliaras, N. D. Tselikas, S. I. Papapanagiotou and I. S. Venieris, "Performance evaluation study for QoS-aware triple play services over entry-level xDSL connections", Journal of Network and Computer Applications, April 2008
- T. Orphanoudakis, H.-C. Leligou, E. Kosmatos, J. D. Angelopoulos, G. Prezerakos, "Performance Evaluation of GPON vs. EPON for Multi-Service Access", International Journal of Communication Systems, October 2008
- T. Orphanoudakis, H.-C. Leligou, E. Kosmatos, J. D. Angelopoulos, K. Kanonakis, G. Prezerakos, I.S. Venieris, "Efficient resource allocation with service guarantees in passive optical networks", Journal of Optical Networking, June 2007, Vol. 6, No. 6
- E. Nikolouzou, P. Sampatakos, E. Kosmatos, S. Maniatis, I.S. Venieris, "Constraint-based Media Content Delivery over Heterogeneous Networks and Devices", International Journal of Wireless and Mobile Computing 2007 - Vol. 2, No.2/3 pp. 224 - 234

Publications in International Conferences

- E. Kosmatos, N. Tzavalas, A. Kaloxylas, A. Alonistioti, "Network and service co-management addressing QoE and optimised resource allocation", IEEE CAMAD 2012, September 2012, Barcelona, Spain
- G. Lioudakis, G. Lamprinakos, E. Kosmatos, D. Kaklamani, I. S. Venieris. "Introducing Privacy-Awareness in Remote Healthcare Monitoring", Proceedings of the 3rd International Symposium on Applied Sciences in Biomedical and Communication Technologies (ISABEL 2010), November 2010, Rome, Italy
- Georgios Lamprinakos, Evangelos Kosmatos, Dimitra Kaklamani, Iakovos Venieris. "An Integrated Architecture for Remote Healthcare Monitoring", Proceedings of PCI 2010, 10-12 September 2010, Tripoli, Greece
- T. Orphanoudakis, H. C. Leligou, E. Kosmatos, A. Stavdas. "Optical metro network architecture based on traffic grooming over hybrid TDM/WDM PONs", 4th European Conference on Networks and Optical Communications (NOC), June 2009, Valladolid, Spain.

- C. Papagianni, N. Tselikas, E. Kosmatos, A. Papadakis T. Keutgen D. Kaklamani, I. Venieris. "A Complete Content Production and Delivery System in a Controlled Multimedia Network", IEEE Symposium on Computers and Communications (ISCC'08), July 6 - 9, 2008, Marrakech, Morocco
- T. Orphanoudakis, H.C. Leligou, E. Kosmatos, G. Prezerakos. "Dynamic Traffic Multiplexing over EPONs Achieving Guaranteed QoS and Optimal Bandwidth Utilization", International Conference in Photonics in Switching 2006 (PS '2006), October 2006, Heraklion, Crete
- G. P. Sotiropoulos, D. K. Styliaras, E. A. Kosmatos, C. A. Papagianni, N. D. Tselikas, I. S. Venieris. "Triple Play Service Simulation and Packet Scheduling Performance Evaluation", Proceedings of International Conference on Digital Telecommunications 2006, August 2006
- C. Papagianni, E. Kosmatos, E. Nikolouzou, I.S.Venieris. "Intelligent multimedia content provision for nomadic users", Proceedings of European Wireless 2005, April 2005
- Yana E. Krasteva, Chrysa Papagianni, Evangelos Kosmatos, Eduardo de la Torre, Iakovos S. Venieris, Teresa Riesgo. "ENAMORADO: Enabling Nomadic Agents in a Multimedia ORiented Architecture of Distributed Objects", Proceedings of eChallenges 2005, October 2005
- E. Kosmatos, C. Papagianni, E. Nikolouzou, P. Sampatakos, S. Maniatis, I.S.Venieris. "Enamorado: An intelligent multimedia content delivery system", Proceedings of Mobile Summit 2004, June 2004
- E. Nikolouzou, P. Sampatakos, V. Kosmatos, I.S. Venieris. "Resource management techniques for dynamic multimedia content adaptation in heterogeneous networks", SPIE ITCOM 2003, September 2003

Contribution in International Books

- Contributing author of undergraduate textbook "Packet Switching Systems in Broadband Networks"
- I.S. Venieris, E. Kosmatos, C. Papagianni, G. N. Prezerakos. "Live Video and On-demand Streaming", "Handbook of Mobile Broadcasting: DVB-H, DMB, ISDB-T and MediaFLO"

Language Skills

English: Proficiency in English

Membership of Professional Bodies

Member of TEE (Technical Chamber of Greece), since 2002

Member of IEEE (Institute of Electrical & Electronics Engineers), since 2002