Dr. Zachos Boufidis

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Birth Date: 07/03/1978
Nationality: Greek

WORK EXPERIENCE	▪ <u>2004 – present</u>: *Senior Researcher*, Dept. of Informatics and Telecommunications, University of Athens, Greece. *ETSI Delegate*, *Associate Workpackage Leader*, *Sub-Workpackage Leader*, *Activity Leader*, *Task Leader*, *Audit Team Member, Core Proposal Team Member, Demonstration Team Member* in large- and medium-scale EC-funded projects ▪ <u>2009 – 2010</u>: *Network and Systems Administrator*, Greek Army (during the compulsory military service) ▪ <u>2000 – 2003</u>: *Researcher*, Dept. of Informatics and Telecommunications, University of Athens, Greece ▪ <u>1998 – 2000</u>: *Research Associate*, Dept. of Informatics and Telecommunications, University of Athens, Greece
INDUSTRIAL / ACADEMIC PARTNERS	▪ <u>Main Industrial Partners</u>: Alcatel-Lucent Deutschland AG / Alcatel SEL, Germany; Deutsche Telekom AG, Germany; DoCoMo Euro-Labs, Germany; France Telecom R&D, France; Hellenic Telecommunications Organisation SA (OTE), Greece; LG Electronics Mobilecomm, France; Motorola European Communications Research Lab, France; NEC Europe Ltd, Germany; Nokia GmbH, Germany; Panasonic European Laboratories GmbH, Germany; Siemens AG, Austria; Siemens AG, Germany; Siemens Mobile Communications SpA, Italy; Tata Consultancy Services Limited, India; Telecom Italia SpA; Thales Communications / Thomson-CSF Communications, France; Toshiba Research Europe Limited, U.K. ▪ <u>Main Academic Partners</u>: Ecole Nationale Supérieure des Télécommunications (ENST) Paris, France; King's College London, U.K.; Universität Karlsruhe, Germany; University of Surrey, U.K.; Universität Politècnica de Catalunya, Spain ▪ More than 40 short-term visits to industrial/academic partners
FUNDED PROJECTS	▪ ICT-216248 Integrated Project E^3 (WP2 *Activity Leader* "Project-wide definition of scenarios and use cases", WP2 *Task Leader* "Information sets, interfaces, protocols, signaling, and mapping to network and system infrastructures") ▪ IST-2005-027714 Integrated Project E^2R II (*Associate Workpackage 2 Leader* "End-to-end reconfiguration management and control architecture", *Sub-Workpackage 6.2 Leader* "Architecture, protocol and support functions for reconfiguration and download in cognitive networks", *Core Proposal Team Member*) ▪ ICT-224344 Self-NET (*Core Proposal Team Member*) ▪ IST-2003-507995 Integrated Project E^2R (*Associate Workpackage 7 Leader* "Dissemination, standardisation and training", *Sub-Workpackage 3.1 Leader* "Reconfiguration management, policies and services") ▪ IST-2002-38835-ANWIRE (*Key Editor*) ▪ GUnet (Greek Universities Network) ▪ IST-1999-10206 MOBIVAS (*Demonstration Team Member*)
STANDARDISATION ACTIVITIES	▪ 9 contributions to (pre)standards bodies and research fora (3GPP, ETSI, IEEE, OMG, SDR Forum, WWI) ▪ Participation in 3GPP RAN plenary, ETSI TC RRS, IEEE P1900.B, OMG SBC, 3GPP MExE meetings
QUALIFICATIONS	▪ <u>Technical Expertise</u>: 3GPP protocols and architectures, UMTS/HSPA/LTE/LTE-A, radio access and core networks, SON, RRM, cognitive networks, reconfigurable systems, mobility management, QoS, telecommunications management, charging, policy control ▪ <u>Undertaken Tasks/Assignments</u>: Research, standardisation, specification, simulation, prototyping ▪ <u>IT Skills</u>: Languages: C, SDL, UML, Pascal, shell scripts, x86 assembly Tools: Telelogic Tau/SDT, Matlab, Rational Rose, MagicDraw UML, OPNET IT Guru, MODSIM, Wireshark/Ethereal, Comnet, EDX Signal Pro, Labview, EWBench
EDUCATION	▪ Ph.D. (2009) in Informatics and Telecommunications, University of Athens, Greece ▪ M.Sc. (with honours) (2004) in Communication Systems and Networks, University of Athens, Greece ▪ B.Sc. (with honours) (2000) in Informatics and Telecommunications, University of Athens, Greece
AWARDS / GRANTS	2 doctoral fellowships (Onassis Foundation, Bodossaki Foundation), Ericsson Award of Excellence in Telecommunications, WWRF student grant, Hellenic Mathematical Society Award
PUBLICATIONS	4 journal/magazine articles, 22 conference/workshop papers, 2 contributions to book chapters, 7 white papers, 2 technical reports
RESEARCH INTERESTS	Design and performance analysis of protocols and architectures for future wireless/wireline heterogeneous communication networks and systems; evolution of radio access and core network, signaling, RRM, SON, network control and management; cognitive wireless networks; mobility management, QoS, and energy issues in 3GPP networks and the Future Internet
RESEARCH COMMUNITY / TEACHING ACTIVITIES	▪ TPC Member; Reviewer for international journals, conferences, and book chapters ▪ Speaker in tutorials and winter schools; Lectures in undergraduate courses and seminars; Laboratory and teaching assistant ▪ Attended 17 conferences/workshops and 2 winter/summer schools
LANGUAGES	English (fluent), Greek (native)

DETAILED CURRICULUM VITAE

Work and Research Experience

Senior Researcher, Communication Networks Laboratory, Department of Informatics and Telecommunications, University of Athens, Greece, 2004 – present:

- Full-time participation in the EC-funded ICT-216248 Integrated Project E^3 (End-to-End Efficiency), 2008 – 2009.
  - *WP2 Activity Leader* "Project-wide definition of scenarios and use cases"
  - *WP2 Task Leader* "Information sets, interfaces, protocols, signaling, and mapping to standard/future network and system infrastructures"
  - Worked on architecture specification and signaling exchange for cognitive beyond 3G mobile systems. Member of the project expert group that was responsible for the design of the overall E^3 system/network architecture and signaling procedures

- *Delegate of the University of Athens, European Telecommunications Standards Institute (ETSI)*, 2008 – 2009. Participated in standardisation activities of the RRS (Reconfigurable Radio Systems) Working Group

- Full-time participation in the EC-funded IST-2005-027714 Integrated Project E^2R II (End-to-End Reconfigurability – Phase 2), 2006 – 2007
  - *Associate Workpackage 2 Leader* "End-to-End Reconfiguration Management and Control Architecture". Responsible for the technical coordination of all architecture activities within the 32-member 14-country consortium
  - *Sub-Workpackage 6.2 Leader* "Architecture, Protocol and Support Functions for Reconfiguration and Download in Cognitive Networks"
  - Final *Project Audit Team Member*, Motorola Labs, Paris, France, March 2008
  - First-year *Project Audit Team Member*, Motorola Labs, Paris, France, March 2007
  - Member of E^2R II demonstration team, 16th IST Mobile and Wireless Communications Summit, Budapest, Hungary, July 2007, and 15th IST Mobile and Wireless Communications Summit, Mykonos, Greece, June 2006

- *Core Proposal Team Member* of the ICT-224344 Self-NET project (Self-Management of Cognitive Future InterNET Elements)

- Full-time participation in the EC-funded IST-2003-507995 Integrated Project E^2R (End-to-End Reconfigurability), 2004 – 2005
  - *Associate Workpackage 7 Leader* "Dissemination, Standardisation and Training"
  - *Sub-Workpackage 3.1 Leader* "Reconfiguration Management, Policies and Services"
  - Participation as WP7 Leader and sWP3.1 Leader in the final project audit, Institut Eurecom, Sophia Antipolis, France, March 2006

- Member of the core proposal team of IST-E^2R II project. Responsible for the structure and writing of Workpackage 2 entitled "End-to-End Reconfiguration Management and Control Architecture", 2004 – 2005

Network and Systems Administrator, Greek Army, 2009 – 2010 (during the compulsory military service):

- Network Operations Center, B' Hellenic Army Corps, Greek Army, Veroia, Greece
- School of Research and Informatics Officers (SAEP), Athens, Greece

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Researcher, Communication Networks Laboratory, Department of Informatics and Telecommunications, University of Athens, Greece, 2000 – 2003:

- Full-time participation in the EC-funded IST-2002-38835-ANWIRE project (Academic Network for Wireless Internet Research in Europe), 2002 – 2004
  - Worked on middleware, policies and service provision in future wireless systems

- Development of digital content for mobile communications, Greek Universities Network (GUnet), University of Athens, 2002 – 2003

- Full-time participation in the EC-funded IST-1999-10206 MOBIVAS project (Downloadable MOBIle Value-Added Services through Software Radio and Switching Integrated Platforms), 2000 – 2002

- o Designed, developed, and demonstrated a new charging, accounting and billing system for value-added service provision in future wireless systems. Conducted SDL-based simulation campaigns of the overall MOBIVAS demonstrator
- o Participation in final project audit, EC premises, Brussels, Belgium, November 2002

Research Associate, Communication Networks Laboratory, Department of Informatics and Telecommunications, University of Athens, Greece, 1998 – 2000:

- Design, specification, modeling, and large-scale simulations of a new SDL-based platform for modeling the radio and fixed part of mobile networks, 1999 – 2000. Extended in part the conceptual studies and protocol specification effort of the EC-funded ACTS-AC015-RAINBOW project (RAdio Access INdependent Broadband on Wireless) (B.Sc. thesis project)

- Participation in a study group focusing on the formal specification and simulation modelling of ATM and BISDN protocols, 1998

Qualifications

Professional Experience:

- Technical and management experience in European and Greek national R&D projects

- Contributions to and presentations in (pre)standards bodies and research fora (3GPP, ETSI, SDR Forum, IEEE, OMG, WWI, and WWRF)

- Major contribution to the design, development and integration of prototypes for future mobile networks

- Extensive collaboration with major operators, vendors, universities, research institutes, and SMEs from Europe and Asia

- Coordination, editing and contribution to a wide range of project proposals, workpackages, deliverables, milestone reports, and white papers

- Coordination of and participation in project audits, test-bed demonstrations, face-to-face meetings, and phone conferences

- Background and laboratory experience in physical layer aspects (analogue and digital communication systems; mobile, satellite and optical communications)

- Background in stochastic modeling and queuing theory

- Strong interpersonal skills, excellent writing and verbal communication skills

- Ability to work with hard-deadlines; in large groups, and independently

Areas of Scientific Specialty:

- 3GPP protocols and architectures, radio access and core networks, SON, RRM, interfaces and technologies (GSM, UMTS, HSPA, LTE/EPC, LTE-A, IMS/SIP, 3GPP/ETSI/ITU/IEEE standards)

- Signalling and switching systems (SS7, IN, ISDN, ATM, MPLS)

- Telecommunications management, charging and policy control

- Cognitive networks and reconfigurable systems

- Mobility management, quality of service, and routing in mobile, wireline/IP, ad hoc, and sensor networks

- Peer-to-peer systems, middleware, active networks, grids

IT Skills:

- Languages: C, SDL, UML, Pascal, shell scripts, x86 assembly

- Tools: Telelogic Tau/SDT, Matlab, Rational Rose, MagicDraw UML, OPNET IT Guru, MODSIM, Wireshark/Ethereal, Comnet, EDX Signal Pro, Labview, EWBench

- Network and systems administration

- Operating Systems: Windows, Ubuntu/Linux/Solaris

- Microsoft Visio, Project, PowerPoint, Excel, Word

Languages:
- English (fluent). Working language since September 2000.
  Certificate: *University of Cambridge First Certificate in English*, December 1993
- Greek (native)

Standardisation, Research Community Activities, and Lectures

Standardisation:
- 9 contributions to (pre)standardisation bodies and research fora (3GPP, ETSI, IEEE, OMG, SDR Forum, WWI) (see *Publications* section)
- Participation in ETSI TC RRS#5 meeting, Paris, France, February 17 – 19, 2009
- Participation in ETSI TC RRS#3 meeting, Guildford, Surrey, U.K., September 16 – 18, 2008
- Participation in OMG SBC workshop, Fairfax, VA, USA, March 5 – 8, 2007
- Participation in 3GPP RAN#34 plenary, Budapest, Hungary, November 29 – December 1, 2006
- Participation in IEEE P1900.B meeting, organized by the University of Athens, Athens, Greece, November 27 – 30, 2006
- Participation in 3GPP TSG-T2 SWG1 (MExE) meeting, hosted by the University of Athens, Athens, Greece, July 24 – 26, 2001

Research Community Activities:
- Technical Program Committee member, support and local arrangements, *LIAISON-ISHTAR Workshop on Location-Based Services*, Athens, Greece, September 2006
- Reviewer, *Wireless Personal Communications*, *International Journal of Communication Systems*, *The Mediterranean Journal of Computers and Networks*, *IEEE Global Telecommunications Conference (GLOBECOM) 2007*, *IEEE Workshop on Dynamic Spectrum Access Networks (DySPAN) 2007*, *15th IST Mobile & Wireless Communications Summit*
- Reviewer of book chapter: Y. Zhang, H. Hu, and M. Fujise (Editors), *Resource, Mobility and Security Management in Wireless Networks and Mobile Communications*, Auerbach Publications, 2007
- Support and local arrangements for the *5th IFIP International Conference on Distributed Applications and Interoperable Systems (DAIS)*, and the *7th IFIP International Conference on Formal Methods for Open Object-based Distributed Systems (FMOODS)*, organized by the University of Athens, Athens, Greece, June 15 – 17, 2005
- Support and local arrangements for the *2nd European Colloquium on Reconfigurability*, organized by the University of Athens, Athens, Greece, June 20 – 22, 2002

Lectures / Teaching Experience:
- "System Architecture for End-to-End Reconfiguration and Architectural Perspectives for Cognitive Radio Systems", tutorial speaker, 16th IST Mobile and Wireless Communications Summit, Budapest, Hungary, July 2007
- "Quality of Service in 3G Mobile Communication Systems", lectures in the context of 8th semester undergraduate course TSP20 "Special Topics in Communications and Signal Processing", Department of Informatics and Telecommunications, University of Athens, Greece, June 2007
- "End-to-End Reconfiguration Management and Control Architecture", tutorial speaker, 15th IST Mobile and Wireless Communications Summit, Mykonos, Greece, June 2006
- "Adaptable Middleware for Service Provision in Mobile Environments", ANWIRE Winter School on Middleware, Nicosia, Cyprus, and "Component-based and Reflective Middleware", ANWIRE Winter School on Middleware, Nicosia, Cyprus, January 2004
- Laboratory Assistant, Electronics and Digital Communications Laboratory, Department of Informatics and Telecommunications, University of Athens, and Teaching Assistant for the 2nd year undergraduate course in Electronics, October 2002 – January 2003

- Laboratory Assistant, Electronics and Digital Communications Laboratory, Department of Informatics and Telecommunications, University of Athens, and Teaching Assistant for the 2nd year undergraduate course in Electronics, October 2001 – January 2002

- "SDL-based platform for modeling the impact of mobility of terminals on the fixed infrastructure of mobile networks; development of protocol stacks and quantitative analysis", Ericsson Awards of Excellence, Ericsson Hellas, Athens, Greece, May 2001

- "Recent Advances in Mobile IP", Networking and Mobile Communications Seminar, Department of Informatics and Telecommunications, University of Athens, January 2001

- "ITU-T Q.2110: The Service Specific Connection-Oriented Protocol", Networking and Mobile Communications Seminar, Department of Informatics, University of Athens, May 1998

Education

Ph.D. in Informatics and Telecommunications, University of Athens, Greece   April 2009

Dissertation title:	*Architectures and signaling protocols for cognitive reconfigurable mobile networks*
Advisor:	Professor Lazaros Merakos
Dissertation summary:	The thesis introduced a new architecture and signaling solution that unify the dynamic selection of radio access technologies and spectrum bands in future cognitive/reconfigurable mobile networks. Deployment scenarios over the most important and challenging next-generation network infrastructure, that is, 3GPP LTE/SAE, were proposed and assessed. In addition, the thesis proposed and evaluated an innovative reconfiguration support architecture and protocol that extend the ETSI IMS-based next-generation network (NGN) framework.

M.Sc. (with honours) in Communication Systems and Networks, University of Athens, Greece   May 2004
(2-year diploma)

GPA:	8.94/10
Thesis title:	*Development of a charging, accounting, and billing system for 3G/4G mobile communication networks*
Advisor:	Professor Lazaros Merakos
Thesis summary:	The thesis proposed and developed a new charging, accounting, and billing system and signaling procedures for 3G/4G mobile communication networks. The system was integrated into an innovative service adaptation/delivery prototype that was successfully demonstrated at the official EC FP5 MOBIVAS project audit, as well as in a plethora of subsequent EC-funded projects and events (e.g., the EC FP6 integrated project E^2R).

B.Sc. (with honours) in Informatics and Telecommunications, University of Athens, Greece   November 2000
(4-year diploma)

GPA:	8.74/10 (Excellent scores in all offered courses in the area of telecommunications and networks)
Thesis title:	*SDL-based platform for modeling the impact of mobility of terminals on the fixed infrastructure of mobile networks; development of protocol stacks and quantitative analysis*
Advisor:	Professor Lazaros Merakos
Thesis summary:	The thesis proposed and developed a generic SDL-based platform for modeling the radio and core network part of mobile systems. The model consisted of more than 800 SDL processes, with large-scale simulation campaigns covering a variety of mobility and handover scenarios.

Awards and Grants

- ***Alexander S. Onassis Public Benefit Foundation doctoral fellowship*** (www.onassis.gr), October 2006 – February 2009

- ***Bodossaki Foundation doctoral fellowship*** (www.bodossaki.gr) (the grant was not received due to acceptance of the Alexander S. Onassis Public Benefit Foundation fellowship)

- ***Wireless World Research Forum (WWRF) student grant*** (www.wireless-world-research.org), WWRF#15, Paris, France, December 2005. Awarded to ten Ph.D. students worldwide per year for paper presentations at WWRF conferences

- ***Ericsson Award of Excellence in Telecommunications***, Ericsson Hellas S.A., Greece, 1st prize award on behalf of the University of Athens for my B.Sc. dissertation (May 2001). Awarded to top 10 B.Sc./M.Sc. dissertations nation-wide in the area of telecommunications and networks

- ***Hellenic Mathematical Society Award*** (www.hms.gr), 1993

- ***Distinction*** and ***Award of Excellence*** in all grades of High School and Grammar School, 1989 – 1995

Attended Conferences/Events and International Mobility

Attended Conferences/Events/Schools:

- 3rd Workshop on Trends in Radio Resource Management, Barcelona, Catalunya, Spain, November 21, 2007

- 18th IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), Athens, Greece, September 3 – 7, 2007

- 16th IST Mobile and Wireless Communications Summit, Budapest, Hungary, July 1 – 5, 2007

- OMG 3rd Software-Based Communications (SBC) Workshop, Fairfax, VA, USA, March 5 – 8, 2007

- IST 2006 Event, Helsinki, Finland, November 22, 2006

- WWI Workshop, Helsinki, Finland, November 22, 2006

- IEEE International Conference on Communications (ICC), Istanbul, Turkey, June 11 – 15, 2006

- 15th IST Mobile and Wireless Communications Summit, Mykonos, Greece, June 4 – 8, 2006

- MIC/NiCT Wireless Week WWI/MOCCA Workshop, Yokosuka, Japan, March 30, 2006

- 4th Karlsruhe Workshop on Software Radios (WSR'06), Karlsruhe, Germany, March 22 – 23, 2006

- 15th Wireless World Research Forum Conference (WWRF#15), Paris, France, December 8 – 9, 2005

- 2nd Workshop on Trends in Radio Resource Management and QoS, Barcelona, Catalunya, Spain, November 15 – 17, 2005

- 2nd IFIP TC6 International Workshop on Autonomic Communication (WAC 2005), Athens, Greece, October 3 – 5, 2005

- 5th IFIP International Conference on Distributed Applications and Interoperable Systems (DAIS 2005), Athens, Greece, June 15 – 17, 2005

- 7th IFIP International Conference on Formal Methods for Open Object-based Distributed Systems (FMOODS 2005), Athens, Greece, June 15 – 17, 2005

- ANWIRE Winter School on Middleware, Nicosia, Cyprus, January 20 – 23, 2004

- EVC-WIN Summer School on Wireless Internet, Helsinki, Finland, July 1 – 5, 2002

- 2nd European Colloquium on Reconfigurability, Athens, Greece, June 20 – 22, 2002

- International Conference on 3rd Generation Infrastructure and Services (3GIS), Athens, Greece, July 2 – 3, 2001

- Bell Labs tour, Athens, Greece, May 2001

International Mobility:

- More than 40 short-term visits to universities and industrial R&D centres: Agence nationale des fréquences (ANFR), Paris, France; Budapest University of Technology, Budapest, Hungary; DOCOMO Euro-Labs, Munich, Germany; Ecole Normale Supérieure (ENS) de Lyon, Lyon, France; Ecole Nationale Supérieure des Télécommunications (ENST) Paris, France; Ericsson Research, Stockholm, Sweden; France Telecom R&D Centre, Grenoble, France; Huawei European Research Centre, Munich, Germany; Huawei European Training Centre, Athens, Greece; Institut Eurecom, Sophia Antipolis, France; King's College London, U.K.; Motorola Labs, Paris, France; NTT DOCOMO, Yokosuka, Japan; Siemens, Munich, Germany; Siemens, Milan, Italy; Swiss Federal Institute of Technology (ETH), Zurich, Switzerland; Thales Communications, Paris, France; Universität Karlsruhe, Germany; Universitat Politecnica de Catalunya, Barcelona, Catalunya, Spain; University of Helsinki, Finland; University of Surrey, Centre for Communication Systems Research, Guildford, U.K.; Vienna University of Technology, Austria

Research Interests

- Design and performance analysis of protocols and architectures for future wireless/wireline heterogeneous communication networks and systems

- Evolution of radio access and core network, signaling, RRM, SON, network control and management

- Cognitive wireless networks

- Mobility management, quality of service, and energy issues in 3GPP networks and the Future Internet

Publications

Selected Journal/Magazine Articles:

1. **Z. Boufidis**, N. Alonistioti, and L. Merakos, "Efficient Signaling Solutions for Infrastructure-based Cognitive Mobile Networks", to be submitted for publication in *IEEE Transactions on Network and Service Management*.

2. V. Gazis, **Z. Boufidis**, N. Alonistioti, and L. Merakos, "Towards the Functional Enhancement of 3GPP Networks with Reconfiguration Capacities", *Wireless Personal Communications*, 2010, DOI 10.1007/s11277-009-9903-0.

3. **Z. Boufidis**, N. Alonistioti, and L. Merakos, "Architecture and Signaling Protocol for Migration to Cognitive Reconfigurable Post-3G Mobile Systems", *ACM SIGMOBILE Mobile Computing and Communications Review*, vol. 12, no. 4, Oct. 2008, pp. 15-31.

4. **Z. Boufidis**, R. Falk, N. Alonistioti, E. Mohyeldin, N. Olaziregi, and B. Souville, "Network Support Modeling, Architecture, and Security Considerations for Composite Reconfigurable Environments", *IEEE Wireless Communications,* vol. 13, no. 3, pp. 34–44, June 2006.

Selected Conferences/Workshops:

5. **Z. Boufidis** *et al*., "End-to-End Architecture for Adaptive Communication Systems", *Proc. 64th IEEE Vehicular Technology Conference (VTC)*, Montreal, Canada, Sep. 2006.

6. **Z. Boufidis**, N. Alonistioti, and L. Merakos, "RSS: The Reconfiguration Support Subsystem for Next-Generation Mobile Networks", *Proc. IEEE International Conference on Communications (ICC) 2006*, Istanbul, Turkey, June 2006.

7. **Z. Boufidis**, N. Alonistioti, and L. Merakos, "Quality of Service Negotiation in support of Post-Download User Sessions", *Proc. 4th Karlsruhe Workshop on Software Radios (WSR'06)*, Karlsruhe, Germany, Mar. 2006.

Contributions to Book chapters:

8. Co-author, "The WWI System Architecture for B3G Networks", book chapter in *Technologies for the Wireless Future: Wireless World Research Forum, Volume 3*, K. David, Ed., Wiley, 2008.

9. Co-author, "Reconfigurability", book chapter in *Technologies for the Wireless Future: Wireless World Research Forum (WWRF), Volume 2,* R. Tafazolli, Ed., Wiley, 2006.

Other Conferences/Workshops:

10. P. Magdalinos, A. Kaloxylos, **Z. Boufidis**, J. Gebert, T. Rosowski, E. Bogenfeld, K. Tsagkaris, and K. Nolte, "Functional Architecture for Cognitive Wireless Systems in the B3G World", *Proc. ICT Mobile and Wireless Communications Summit 2009*, Santander, Spain, Jun. 2009.

11. **Z. Boufidis**, E. Patouni, A. Kousaridas, N. Alonistioti, and K. Nolte, "Architecture for End-to-End Efficiency distilled from Reconfigurability Outcomes", *Proc. ICT Mobile and Wireless Communications Summit 2008*, Stockholm, Sweden, June 2008.

12. **Z. Boufidis**, N. Alonistioti, R. Feuillette, O. Holland, J. Pan, and K. Moessner, "End-to-End Architecture for Cognitive Reconfigurable Wireless Networks", *Proc. 16th IST Mobile and Wireless Communications Summit*, Budapest, Hungary, July 2007.

13. M. Muck, D. Bourse, K. Moessner, N. Alonistioti, P. Demestichas, E. Nicollet, E. Buracchini, D. Bateman, **Z. Boufidis**, E. Patouni, V. Stavroulaki, A. Trogolo, and P. Goria, "End-to-End Reconfigurability in Heterogeneous Wireless Systems – Software and Cognitive Radio Solutions enriched by Policy- and Context-based Decision Making", *Proc. 16th IST Mobile and Wireless Communications Summit*, Budapest, Hungary, July 2007.

14. M. Muck, S. Gault, D. Bourse, K. Tsagkaris, P. Demestichas, **Z. Boufidis**, M. Stamatelatos, and N. Alonistioti, "Evolution of Wireless Communication Systems towards Autonomously Managed, Cognitive Radio Functionalities", *Proc. 64th IEEE Vehicular Technology Conference (VTC)*, Montreal, Canada, Sep. 2006.

15. **Z. Boufidis**, N. Alonistioti, M. Stamatelatos, D. Bourse, K. El-Khazen, and M. Muck, "Evolution of the Reconfiguration Management Plane for Autonomic Communications", *Proc. 15th IST Mobile and Wireless Communications Summit*, Mykonos, Greece, June 2006.

16. A. Mihailovic, N. Olaziregi, N. Berthet, D. Pirez, J. E. Goubard, A. Minokuchi, B. Souville, **Z. Boufidis**, N. Alonistioti,

and K. El-Khazen, "End-to-End Reconfigurability System Architecture Fundamentals", *Proc. 15th IST Mobile and Wireless Communications Summit*, Mykonos, Greece, June 2006.

17. P. Cordier, D. Bourse, K. Moessner, J. Luo, C. Kloeck, K. Tsagkaris, R. Agusti, N. Olaziregi, **Z. Boufidis**, E. Buracchini, P. Goria, A. Trogolo, "E^{2}R Cognitive Pilot Channel concept", *Proc. 15th IST Mobile and Wireless Communications Summit*, Mykonos, Greece, June 2006.

18. **Z. Boufidis**, E. Patouni, N. Alonistioti, P. Magdalinos, D. Bourse, and K. El-Khazen, "Exploiting the Reconfiguration Management Plane for Protocol Adaptation and Quality of Service Negotiation in B3G Systems", *Proc. Wireless World Research Forum (WWRF#15)*, Paris, France, Dec. 2005.

19. P. Cordier, P. Houze, S. Ben Jemaa, O. Simon, D. Bourse, D. Grandblaise, K. Moessner, J. Luo, C. Kloeck, K. Tsagkaris, R. Agusti, P. Goria, E. Buracchini, A. Trogolo, N. Olaziregi, **Z. Boufidis**, and E. Mohyeldin, "Cognitive Pilot Channel", *Proc. Wireless World Research Forum (WWRF#15)*, Paris, France, Dec. 2005.

20. E. Mohyeldin, J. Luo, E. Schulz, N. Olaziregi, **Z. Boufidis**, N. Alonistioti, and B. Souville, "E^{2}R Network Architecture for Reconfigurable Radio", *Proc. Wireless World Research Forum (WWRF#14)*, San Diego, California, USA, July 2005.

21. F. Foukalas, Y. Ntarladimas, A. Glentis, and **Z. Boufidis**, "Protocol Reconfiguration Using Component-Based Design", *Proc. 5th IFIP International Conference on Distributed Applications and Interoperable Systems (DAIS)*, Athens, Greece, June 2005, also appeared in *Lecture Notes in Computer Science*, Volume 3543, 2005.

22. **Z. Boufidis**, N. Alonistioti, and M. Dillinger, "Network Control and Management for Beyond 3G End-to-End Reconfiguration", *Proc. 14th IST Mobile and Wireless Communications Summit*, Dresden, Germany, June 2005.

23. N. Alonistioti, **Z. Boufidis**, N. Houssos, and M. Stamatelatos, "Business and Management Challenges for End-to-End Reconfiguration", *Proc. Eurescom Summit on Ubiquitous Services and Applications: Exploiting the Potential*, Heidelberg, Germany, April 2005.

24. **Z. Boufidis**, M. Stamatelatos, N. Alonistioti, A. Delautre, M. Dillinger, and M. Alvarez, "Actors, Management Plane, and Policy Provision Challenges for End-to-End Reconfiguration", *Proc. E²R Workshop on Reconfigurable Mobile Systems and Networks Beyond 3G*, Barcelona, Spain, Sep. 2004.

25. M. Stamatelatos, C. Anagnostopoulos, and **Z. Boufidis**, "Enabling Profile Management in Reconfigurable Environments", *Proc. E²R Workshop on Reconfigurable Mobile Systems and Networks Beyond 3G*, Barcelona, Spain, Sep. 2004.

26. N. Alonistioti, **Z. Boufidis**, A. Kaloxylos, and M. Dillinger, "Integrated Management Plane for Policy-based End-to-End Reconfiguration Services", *Proc. 13th IST Mobile and Wireless Communications Summit*, Lyon, France, June 2004.

27. M. Koutsopoulou, S. Panagiotakis, **Z. Boufidis**, N. Alonistioti, and A. Kaloxylos, "Charging, Billing, and Accounting in a Multi-Operator and Multi-Service Provider Environment", *Proc. ANWIRE Workshop on Reconfigurability*, Mykonos, Greece, Sep. 2003.

28. S. Panagiotakis, E. Gazis, M. Koutsopoulou, N. Houssos, **Z. Boufidis**, and A. Alonistioti, "Roaming Issues for Service Provisioning in 3rd Generation Mobile Networks", *Proc. Advanced Technologies, Applications and Market Strategies for 3G (ATAMS)*, Cracow, Poland, July 2001.

White Papers:

29. Co-author, "Mobile Service Platforms – Architecture Whitepaper", MSP Cluster White Paper, Mar. 2008.

30. **Z. Boufidis**, N. Alonistioti, R. Feuillette, O. Holland, J. Pan, and K. Moessner, "End-to-End Network Architecture for Cognitive Reconfigurable Mobile Systems", E^{2}R II White Paper, Dec. 2007

31. M. Muck, S. Gault, V. Merat, E. Patouni, **Z. Boufidis**, *et al.*, "Autonomic Communications for Heterogeneous Wireless Communication Systems", E^{2}R II White Paper, Dec. 2007

32. Co-author, "Over-the-Air Software Download for Cognitive Networks", E^{2}R II White Paper, Dec. 2007

33. **Z. Boufidis**, E. Patouni, and N. Alonistioti, "End-to-End Reconfiguration Management and Control System Architecture", E^{2}R II White Paper, June 2007

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