

Short CV:  
**Prof. Nancy Alonistioti**

## **I. Contact Details**

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## **II. Education**

- **Ph.D. Degree in Informatics and Telecommunications from University of Athens, 1998.** Title: “Open O-O SDL platforms for the specification of protocols and services for UMTS systems and cognitive networks”.
- **Diploma in Informatics and Telecommunications from University of Athens.** Dissertation thesis on “Mobile and wireless communications”.

## **Foreign Languages**

- English (Proficiency - Cambridge)
- German (Mittelstufe Diplom)
- French (Certificat)

## **III. Teaching experience**

### **University of Athens:**

- 2008 – today: Prof., Dept. of Informatics and Telecommunications, University of Athens. Position: Mobile and wireless communications. Leads the activities of SCAN Lab on self configuring autonomic networking and services.

- Adjunct lecturer, Department of Informatics and Telecommunications, National Kapodestrian University of Athens, Spring Semester 2005, Advanced Topics in Networks.
- Adjunct lecturer, Department of Informatics and Telecommunications, National Kapodestrian University of Athens, Spring Semester 2004, Advanced Topics in Networks.
- Adjunct lecturer, Department of Informatics and Telecommunications, National Kapodestrian University of Athens, Spring Semester 2003, Advanced Topics in Networks.
- Adjunct lecturer, Department of Informatics and Telecommunications, National Kapodestrian University of Athens, Winter Semester 2003, Mobile and Wireless Communications, post-graduate level.
- Introduction to SDL and protocol design techniques, as part of the “Computer Networks” post-graduate level course, Department of Informatics and Telecommunications, National Kapodestrian University of Athens.

#### **University of Pireus:**

- 2007-2008: Assoc. Prof., Dept. of Informatics, University of Pireus. Position: Mobile software engineering and OO architectures and services. Leader of the activities of SCA Lab on self configuring autonomic networks and services

#### **Panteion University:**

- Adjunct lecturer, Department of Public Administration, Winter Semester 2003, Introduction to Computer Science.

#### **Technological Educational Institute (T.E.I.) of Piraeus:**

- Adjunct lecturer for the academic year 1995-1996, Department of Mathematics, School of Technological Applications, Programming Languages course.

#### **Technological Educational Institute (T.E.I.) of Athens :**

- Lectures in the framework of the complementary training program entitled «*Complete Design and Test of Telecommunication Product*» (1998 – 1999).
- Adjunct lecturer for the academic year 1999-2000, Department of Electronics, Programming Languages course.
- Adjunct lecturer for the academic year 1999-2000, Department of Electronics,

Telecommunications II course.

#### **Hellenic Telecommunications and Posts Commission:**

- Seminars for advanced service delivery in UMTS networks for the scientists of the National Committee of Telecommunications and Posts.

#### **IV. Particiaption in International and National Projects (indicative overview of some of the activities)**

- **University of Athens, Dept. Informatics and Telecommunications**
- **OTE (Greek PTT) contracts: Project manager and contact point** for OTE contracts to CNL-SCAN Dept. Informatics and Telecommunications, Univ. of Athens
- **Vodafone (Greek Branch) contracts: Project manager and contact point** for Vodafone contracts to CNL-SCAN Dept. Informatics and Telecommunications, Univ. of Athens
- **UniverSelf (Project Management Team, WP leadership)**
- **CONSERN (COoperative aNd Self growing Energy awaRe Networks), Project manager and contact point** , Main Objectives CONSERN will focus on energy efficient interactions of The key objective of CONSERN is to introduce a novel paradigm for dedicated, purpose-driven small scale wireless networks characterized by a service-centric evolutionary approach, referred here as an energy-aware self-growing network and system. A Self-Growing network is set up on-demand, dedicated to a single purpose such as monitoring and/or controlling with a focus on large scale, distributed and cooperative systems. This includes for example construction sites, and delivering wireless services within a complex home/office environment requiring network parameter negotiation with a multitude of neighbouring networks, etc. During its lifecycle, it can evolve to serve several different objectives as needed, such as providing general voice and data communications, integrating sensor networks in the vicinity or supporting safety of life applications under exceptional situations. In the course of this it may coexist and cooperate with other wireless networks of distinct owners and interest groups evolving in the deployment area towards using or augmenting existing capacity. Towards the end of its lifecycle, the self-growing network may still remain active and may serve as a dedicated purpose (embedded) network or as a failover for applications associated with other networks sharing the same area.
- **SACRA, Spectrum and energy efficiency through multi-band Cognitive Radio, Task manager/sWP leader.** SACRA project proposes to develop a multi-band cognitive radio technology. In SACRA, new techniques for the global efficiency of wireless systems will be developed in the following four directions:- the spectral efficiency thanks to the use of cognitive radio techniques in a multi-band scheme,- the minimization of electronic component number in wireless systems, the energy optimization for wireless communication terminals by optimizing architecture design and algorithms Implementation,- the minimization of the generated interference in the environment by selecting the adequate band which will guarantee the shortest transmission distance and the minimum power while

preserving the QoS. The innovation and impact brought by SACRA project are in the combination of innovative approaches on Radio Frequency (RF) front-end and base band components design with new cognitive radio techniques integrated into a demonstrator platform.

- **E3 (The End-to-End Efficiency):** Participation as *Member of the **Project Management Team (PMT), leader of WP6** and 1 sub-Work Package. University of Athens participation in the project is strong leading 4 sub-Work Packages (sWPs) and being the 4<sup>th</sup> partner in terms of funded budget.* E3 project is an ambitious FP7 EC Large Scale Integrating Project (IP) aiming at integrating cognitive wireless systems in the Beyond 3G (B3G) world, evolving current heterogeneous wireless system infrastructures into an integrated, scalable and efficiently managed B3G cognitive system framework. The key objective of the E<sup>3</sup> project is to design, develop, prototype and showcase solutions to guarantee interoperability, flexibility and scalability between existing legacy and future wireless systems, manage the overall system complexity, and ensure convergence across access technologies, business domains, regulatory domains and geographical regions. Cognitive radio systems are seen by many actors of the wireless industry as a core technical evolution towards exploitation of the full potential of B3G systems. It is under way to revolutionise wireless communications just as the PC revolution did in its domain. E<sup>3</sup> will ensure seamless access to both applications and services as well as exploitation of the full diversity of corresponding heterogeneous systems, in order to offer an extensive set of operational choices to the users (e.g. seamless experience), application and service providers (e.g. fast deployment of enhanced features and services in reduced time frames), operators (e.g. network management, operation and maintenance), manufacturers (e.g. wider market and migration to new standards) and regulators (e.g. increasing spectrum efficiency). E<sup>3</sup> will optimise the use of the radio resources and spectrum, following cognitive radio and cognitive network paradigms (autonomic management, learning, experience, knowledge as well as context, profiles, policies). The management functions will be distributed over different network elements at various levels of the system topology. A corresponding management agility will be required for supporting the most efficient use of the cooperating technologies, at local, regional, and global levels. Budget for the NKUA: 700K€
- **Self-Management of Cognitive Future Internet Elements (Self-NET) – STREP FP7 (May 2008-October 2010): Involvement: **Project Coordinator:** *Ensuring project overall coordination and representation to the EC. Participation in the relevant Future Internet (FI) fora (e.g. FI Cluster, FI Assembly etc.). Leading the University of Athens research activities.* **Self-NET** aims to introduce, design and validate an innovative paradigm for cognitive self-managed elements of the Future Internet. **Self-NET** shall engineer the Future Internet based on cognitive behaviour with a high degree of autonomy, by proposing the operation of self-managed Future Internet elements around a novel hierarchical feedback-control cycle. The **Self-NET** concepts are based on a hierarchical Distributed Cognitive cycle for System & Network Management (DC-SNM) which aims at facilitating the promotion of distributed management. The management approach encompasses a hierarchical distribution of cognitive cycles, breaking down the execution and decision making levels to (autonomic) network elements, network domain types and up to the service provider realm in order to address management, dynamic organisation and (re)configuration of future internet elements. Project Budget: 3.7 M€**

- **End-to-End Reconfigurability Phase II (E2RII) – Integrated Project FP6 (January 2006-December 2007):** Participation as *Member of the **Project Management Team (PMT)**, **Leader of 1 Work Package (WP)** and 2 sub-Work Packages (sWPs)*. University of Athens participation in the project has been strong, being the 4<sup>th</sup> partner in terms of funded budget. The **End-to-End Reconfigurability Phase II (E2RII)** project has aimed at realising the full benefits of the diversity within the radio eco-space, composed of wide range of systems such as cellular, fixed, wireless local area and broadcast. Building on the successful developments of the first phase, the key objective of the **E2RII** project has been to devise, develop, trial and showcase architectural design of reconfigurable devices and supporting system functions to offer an extensive set of operational choices to the users, application and service providers, operators, and regulators in the context of heterogeneous systems. Innovative research, development and proof of concept are to be pursued from an end-to-end perspective, stretching from user device through all system levels. Furthermore reconfigurability support for intrinsic functionalities, such as management and control, download support, spectrum management, regulatory framework and business models complete the project scope. Project Budget: 18.86 M€
- **End-to-End Reconfigurability (E2R) – Integrated Project FP6 (January 2004-December 2005):** Participaiton as **Core Member for the building of the IP proposal (initiating proposal discussions, hosting of mailing lists etc.)**, *Member of the **Project Management Team (PMT)**, **Leader of 1 Work Package (WP)** and 1 sub-Work Package (sWPs)*. University of Athens participation in the project has been strong, being the 4<sup>th</sup> partner in terms of funded budget. The **End-to-End Reconfigurability (E2R)** project has aimed at bringing full benefits of the valuable diversity within the Radio Eco-Space, composed of wide range of systems such as Cellular, Wireless Local Area and Broadcast. The key objective of the **E2R** project has been to devise, develop and trial architectural design of reconfigurable devices and supporting system functions to offer an expanded set of operational choices to the users, applications and service providers, operators, regulators in the context of heterogeneous mobile radio systems. Project Budget: 15.97 M€
- **Locatlon bAsed servlceS for the enhancement of wOrking environment (LIAISON) - Integrated Project FP6 (September 2004-March 2008):** Participation as *Member of the **extended Project Management Team (ex-PMT)***. The **LIAISON** project's aim has been to turn emergent technologies, applications and services into actual business cases in order to allow key European actors to fulfill in a competitive manner the needs of workers in their daily life, for seamless and personalised location services across heterogeneous network. Led by Alcatel Space, this Integrated Project has united expertise and activities from major European actors committed to provision of end-to-end Location Based Services, applications and solutions. To achieve its target, **LIAISON** has integrated numerous existing standards and techniques, bring a set of emerging underlying technologies to the required maturity for professional usage, enhance the system capabilities through innovations resulting from the EGNOS and Galileo signals. Such an approach will contribute to new business models to secure the sustainability of the services and applications. **LIAISON's** objectives are user-driven: end user communities, including institutional bodies and industrial actors seeking currently unavailable reliable LBS solutions, are strongly committed through their direct integration into the consortium. Project Budget: ~20 M€
- **Downloadable MOBIle Value-Added Services through Software Radio & Switching Integrated Platforms (MOBIVAS) – 5<sup>th</sup> IST (January 2000-June 2002):** Participation as

**Technical Manager of the Project.** The overall objective of **MOBIVAS** has been to develop architectural approaches and prototypical implementations of integrated software platforms and systems, which enable the flexible provision of Value-Added Services (VAS) in mobile communication networks. These platforms should be adaptable to different network services and technologies and would constitute new opportunities for third-party Value-Added-Service Providers (VASPs). A key objective of **MOBIVAS** has been to develop innovative and modular network components for the seamless and efficient service provision in converging existing network. The **MOBIVAS** intelligent application platform provides for the integration of 4 basic entities, namely the contracted Value Added Service Provider, the Operator and network infrastructure, the Access network and the End user. The **MOBIVAS** platform has coped with major issues like charging/billing, authentication, security etc. Project Budget: 2.4 M€

- **Academic Network for Wireless Internet Research in Europe (ANWIRE) – 5<sup>th</sup> IST (September 2002-August 2004):** Participation as **Coordinator** (2<sup>nd</sup> half of the project) and **Technical Manager** (1<sup>st</sup> half of the project) of the Project. Ensuring the project's overall technical coordination and coherency. **ANWIRE** has been a thematic network of the 5th IST Framework, established mainly by academic institutions from various EU countries acting in two main overlapping research tracks: i) Wireless Internet and ii) Reconfigurability. ANWIRE has aimed at i) organising and coordinating parallel actions in key research areas of Wireless Internet and Reconfigurability, in order to encompass research activities towards the design of a fully integrated system; and ii) promoting and disseminating Wireless Internet and Reconfigurability solutions, in order to make them available to the research and industrial community. Project Budget: ~1.3 M€
- **CASCADAS (Component-ware for Autonomic Situation-aware Communications, and Dynamically Adaptable Services):** participation to CASCADAS as a **Task leader / sWPLLeader**. CASCADAS main goal is the development an autonomic component-based framework to enable composition, execution and deployment of innovative services capable of flexing and coping with unpredictable environments by dynamically self-adapting to situation evolutions. In this context, CASCADAS aims at a vision of Future Internet as an ecology of simple lightweight components (abstracting data, information, service components, telco-ICT enabler, etc.) that are able to interact with each other and self-organize dynamically their activities to serve in an adaptive and goal-oriented way the dynamic needs of Prosumers and Providers. In this vision, traditional ISO/OSI layered approaches to networking and Internet lose any meaning: i.e. without relying on any pre-defined layering, the ecology of self-organizing and self-adaptive components will be able to compose together any needed suite of services.
- **ANA (Autonomic Network Architecture):** participation to ANA as a **Task leader / sWPLLeader**. The ANA Project aims at exploring novel ways of organizing and using networks beyond legacy Internet technology. The ultimate goal is to design and develop a novel autonomic network architecture that enables flexible, dynamic, and fully autonomous formation of network nodes as well as whole networks. Universities and research institutes from Europe and Northern America are participating in this project. The resulting autonomic network architecture will allow dynamic adaptation and re-organisation of the network according to the working, economical and social needs of the users. This is expected to be especially challenging in a mobile context where new resources become available dynamically, administrative domains change frequently, and the economic models may

vary.

- **BIONETS (BIologically inspired NETwork and Services):** participation to BIONETS as a **Task leader / sWPLeader**. The motivation for BIONETS comes from emerging trends towards pervasive computing and communication environments, where myriads of networked devices with very different features will enhance our five senses, our communication and tool manipulation capabilities. The complexity of such environments will not be far from that of biological organisms, ecosystems, and socio-economic communities. Traditional communication approaches are ineffective in this context, since they fail to address several new features: a huge number of nodes including low-cost sensing/identifying devices, a wide heterogeneity in node capabilities, high node mobility, the management complexity, the possibility of exploiting spare node resources. BIONETS aims at a novel approach able to address these challenges. BIONETS overcomes device heterogeneity and achieves scalability via an autonomic and localized peer-to-peer communication paradigm. Services in BIONETS are also autonomic, and evolve to adapt to the surrounding environment, like living organisms evolve by natural selection. This new paradigm breaks the barrier between service providers and users, and sets up the opportunity for "mushrooming" of spontaneous services, therefore paving the way to a service-centric ICT revolution.
- **Radio Access INdependent Broadband On Wireless (RAINBOW) – ACTS (September 1995-August 1997):** Participation as **WP Leader**. **RAINBOW** has been planned as the natural (experimental) continuation of several studies performed in the RACE II framework and concerning the UMTS functional and network architecture. The most qualifying objective of the RAINBOW project has been investigating architectural and integration issues through a laboratory implementation of the transport and mobility control functions expected for UMTS. The implementation has been based on a conceptual design effort that is part of the project. The radio access part of UMTS has been implemented in order to study a "generic" UMTS access infrastructure, able to cope with different innovative radio access techniques (long term view) and, at the same time, to guarantee a soft migration from second to third generation systems (short term view). On the radio side, all the local transport and control functions tied to the terminal mobility (e.g. handover) have been implemented on a platform emulating the radio behavior of the adopted radio access techniques.
- **POLOS (Integrated Platform for Location-Based Services):** Participation as **Deputy PM**. Motivated by the diversity of Location Based Services and the need to introduce new services rapidly in order to satisfy market trends, the project was focused on the design and implementation of an Integrated Platform, covering the full range of related issues such as Service Creation, Service Deployment and Provision. The project investigated schemes for location-based services and latest technological achievements in the sector of Geographical Information Systems, positioning techniques and network interfaces in order to design and implement a platform capable of providing the full functionality needed to design, create and deploy location based services. Integration of the individual functional components into a single platform was made as well as demonstration of a prototypical deployment over an existing network operator.
- **SCIER (Sensor and Computing Infrastructure for Environmental Risks):** Participation as **researcher**. The SCIER project designed, developed, and demonstrated

an integrated system of sensors, networking and computing infrastructure for detecting, monitoring, predicting and assisting in the crisis management of natural hazards or accidents at the "urban-rural-interface" (URI), i.e., in areas where forests and rural lands interface with homes, other buildings and infrastructures. The overall goal of the SCIER system was to make the much-neglected URI zone safer for the European citizens against any type of natural hazards or accidents. To achieve its ambitious objective, SCIER combined several technologies: 1) self-organizing, self-healing re-configurable sensor networks for the detection and monitoring of disastrous natural hazards, 2) advanced sensor data fusion and management schemes capable of deducing the required information needed for accurately monitoring the dynamics of multiple interrelated evolving hazardous phenomena (multi-risk), 3) environmental risk models for predicting the evolution of hazardous phenomena using a robust GRID computing infrastructure. A prototype system integrated state-of-the-art sensors (e.g., vision sensors, wireless sensor networks with low energy requirements) with existing communications and computing infrastructure.

- **PHYDIAS (PHysical layer for DYnamic spectrum AccesS and cognitive radio):** Participation as **researcher**. PHYDIAS proposes an advanced physical layer, using filter bank-based multicarrier (FBMC) transmission, for supporting the new concepts in radio communications: dynamic access spectrum management (DASM) and cognitive radio. The performance and operational flexibility of multicarrier radio systems are enhanced by exploiting the spectral efficiency of filter banks and the independence of the sub-channels. In cognitive radio environment, research deals with radio scene analysis and channel identification, and the impact of the independence of sub-channels on transmit-power control and dynamic spectrum management. Simulation software is developed for a typical WiMAX configuration and scenario, and performance comparison with OFDM is carried out. A real time soft/hardware demonstrator is built, to complete simulation results and show efficient architectures. The expected impact of PHYDIAS is the migration of wireless systems to a physical layer that is more efficient and better responds to the needs of dynamic access and cognitive radio.
- **ACTS WAND (WP Leadership),**
- **WINE (WP leadership),**
- **EURO-CITI (Project Management),**
- **VIDEO-GATEWAY (WP leadership) ,**
- **BROADWAY (WP leadership)**
- **Intelligent Network Application Part-OTE (INAP-OTE) – OTE (January-December 1998):** Participation as **Technical manager**. INAP-OTE has been financed by the Greek incumbent operator Hellenic Telecommunications Organisation (OTE) to adapt the INAP protocol and services for OTE's Intelligent Network (IN). **INAP-OTE** has also dealt with ISDN protocols certification and conformance for OTE's digital switching centers.
- **WiMax Deployment topics. Coordinator.** Topics for standards evolution and technology deployment assessment. Internal project, collaboration with OTE.
- **P919 "UMTS Network Aspects" & P920 "Integrated Fixed and Mobile Network**

**Systems” – EURESCOM (January-December 1999), Personal Involvement: *Technical coordination***

- **Greek Universities Network (GUnet)**

- **Advanced Telematics Services for the Institutions of GUnet (GUnet II) – 3<sup>rd</sup> CSF:** *GUnet II* has constituted the continuation of the project “Academic Internet- GUnet: Access Network and Core Services for the Education” that was financed with resources of the 2<sup>nd</sup> Communal Support Field (CSF). GUnet II actions have included:

- a) The coordinated development of advanced telematics services (services of catalogue, security, voice-over-IP), directly exploitable by the academic community. These services will have a horizontal character, completing in many cases corresponding action of the institutions- members.
- b) The development of digital content with accent on the Information and Communication Technologies, aiming at the appointment and exploitation of the activities and content of the Greek Academic Institutions.
- c) The development of synchronous and asynchronous tele-education services and the implementation of projects for the acquisition of know-how in the new technologies of telematics and networks by the members of the Network Operations Centres (NOC).

- **Personal Involvement: *Technical Manager.*** *The project has had great success, raising interest and achieving press promotion, where numerous references to GUnet portal and user services have been made. The project was an umbrella project, comprising 3 sub-projects.*

- **E-University services:** M-learning and wireless services to the students. Participation as **Coordinator**

- **Wireless deployment in heterogeneous areas.** Study, survey and assessment for wireless system deployment in campus areas. Participation as **Coordinator**

- **National Center for Scientific Research (NCSR) Demokritos, Institute of Informatics & Telecommunications**

- **CTS4/SS7:** Conformance Tests and Certification Labs for SS7 signaling protocols, ISDN networks, X.75 & ISUP protocols.

- **Personal Involvement: Dept. Project Coordinator.** Responsible for the lab software design and development, as well as the planning and maintenance of the labs. The development of the control procedures was performed with the use of advanced software tools (ITEX) that supported TTCN, the formal language for the description of control procedures.

- **Remote monitoring for forest fires.** Sensor networking and context management.

- **Personal Involvement: Project Coordinator.** Responsible for the sensor deployment, as well as the management of the context info.

- **DECT: Protocol compliance of DECT devices in heterogeneous environments.**  
Certification inputs and assessment.
  - **Personal Involvement: Dept. Project Coordinator.** Responsible for the lab software design and development, as well as the planning and maintenance of the labs.
- **Development of a Netmeeting Centers Network for the support of tele-education, tele-presentation, tele-working and the development of an Intelligent e-Learning system and environment – Greek Ministry of Development**
  - **Personal Involvement: Dept. Scientific Coordinator.** *Activities included part of the project's overall coordination, as well as the **technical management** of the relevant R&D activities.*
- **Development of a framework for the dynamic update of the syllabus for the “Automation” subject with the use of modern information tools – Greek Ministry of Education and Religious Affairs:** Use and integration of information tools in the educational domain.
 

**Personal Involvement: Technical Manager. R&D activities.**

## V. Professional profile

- **2008-today:** Prof., Dept. of Informatics and Telecommunications, University of Athens. Position: Mobile and wireless communications. Leads the activities of SCAN Lab on self configuring autonomic networking and services.
- **2007-2008:** A. Prof., Dept. of Informatics, University of Pireus. Position: Mobile software engineering and OO architectures and services. Lead the activities of SCA Lab on self configuring autonomic networks and services
- **2001 - 2006:** Member of the central coordinator team of the non-profit civil company named GUnet (Greek Universities Networks) in which members are all the Higher Education and Academic Institutions (20 Universities and 16 TEI). My responsibilities include the definition of the main axes of action of the project GUnet-II which is being financed with resources of the 3<sup>rd</sup> and 4<sup>th</sup> EC Framework, and the coordination of the network operation teams of the member Institutes for their participation in the new project. Moreover, I am responsible for the coordination for the development and planning of the GUnet portal (<http://www.gunet.gr/>) in order to provide advanced multimedia services at the academic institutions
- **2001 - 2007:** Project Manager in the Network Operation Center of National and Kapodistrian University of Athens
- **2000 - 2001:** Expert on Mobile telecommunications at the Hellenic Telecommunications and Posts Commission with specialization in the 3<sup>rd</sup> Generation Mobile networks and the certification of telecommunication systems and services.

- **1993 - 2000:** Research associate at the Institute of Information Technology, National Center of Specific Research “Democritos”, with specialization at the research area of System and Protocol Planning, Modeling and Verification for Computer Networks, 3<sup>rd</sup> Generation Mobile Networks (UMTS), Software Radio, Open Architectures (COBRA) and Formal Methods. Particular research activity is performed in the area of the development, modeling and control of advanced services and protocols for UMTS networks (systems) with the use of SDL (Specification and Description Language), as well as in the designing of Software-reconfigurable Radio systems.
- **1994 - 2006:** Research associate at the Communication Networks Laboratory of the Department of Informatics and Telecommunications of the National and Kapodistrian University of Athens. My responsibilities encompass the management of national and European projects and their technical coordination.

## **VI. International presence**

### **Organisation of Conferences, Standardization groups, (Guest) Editorships:**

- ❖ Participation in international standardization fora:
- ❖ MEXE, SDR FORUM, OMG, ICT Group UMTS FORUM
- ❖ Founding and voting member of the IEEE P1900.4 Standards Working Group for the standardization of the Cognitive Pilot Channel and the parameters related with the exchange πληροφορίας πλαισίου περιβάλλοντος for cognitive reconfigurable mobile communications.
- ❖ Responsible for the organization of the “2nd European Colloquium on Reconfigurable Radio ” in Athens, June 2001, under the aegis of the Research Committee (Διεύθυνσης έρευνας) of the Department of Mobile Communications of the European Union
- ❖ Responsible for the organization of the 3GPP MEXE (standards) Group meeting in Athens, July 2000, at the National and Kapodistrian University of Athens.
- ❖ Member of IFIP TC6 WG6.7 on Smart Networks
- ❖ Participation in the Program Committee of the “3rd Workshop on Applications and Services in Wireless Networks”, 2-4 July 2003 (ASWN 2003), Berne, Switzerland, sponsored by IEEE Communications Society
- ❖ Participation in the Program Committee of the “Fourth International IFIP Working Conference on Distributed Applications and Interoperability” (DAIS'03) (<http://www.infres.enst.fr/fedconf/index-dais.html>), to be held in conjunction with FMOODS'03 (Conference on Formal Methods for Open Object-Based Distributed Systems) (<http://www.infres.enst.fr/fedconf>)
- ❖ Presentation of proposals for standardization at the ICT Group, UMTS Forum

- ❖ Organization of the 2nd ANWIRE Workshop on Reconfigurability, Mykonos, September 2008
- ❖ Participation in the Program Committee of the “4th Workshop on Applications and Services in Wireless Networks” Boston, Massachusetts, USA, August 9-11, 2004, sponsored by IEEE Communications Society
- ❖ Participation in the Technical Program Committee of Networking 2004, The Third IFIP-TC6, May 9-14 2004, Athens
- ❖ Participation in the Technical Program Committee of the Mobile and Wireless Communications Networks (MWCN) Conference 2004, Paris, France, October 25-27
- ❖ Organization and participation in the Program Committee of the “5th International IFIP Working Conference on Distributed Applications and Interoperability” (DAIS’05) (<http://www.infres.enst.fr/fedconf/index-dais.html>), to be held in conjunction with FMOODS’05 (Conference on Formal Methods for Open Object-Based Distributed Systems) (<http://www.infres.enst.fr/fedconf>), June 2005, Athens
- ❖ Co-chair of the E2R-SDRForum workshop session , April 20, 2004, at Mainz, Germany.
- ❖ Guest Co-Editor, Special issue “Composite Reconfigurable Radio Networks”, **IEEE Wireless Communications**
- ❖ Member of the Editorial Board of Journal of Networks (JNW), Academy Publisher
- ❖ Program Chair and responsible for the organization of the DAIS’05
- ❖ Participation in the Technical Program Committee of the ASWN 2005
- ❖ Participation in the Technical Program Committee of the PIMRC 2005
- ❖ Participation in the Technical Program Committee of the PIMRC 2006
- ❖ Participation in the Technical Program Committee of the SECON’05
- ❖ Participation in the Technical Program Committee of the IST SUMMIT 2006
- ❖ Tutorial Co-Chair of the IST SUMMIT 2006
- ❖ Participation in the Technical Program Committee of the DAIS’06
- ❖ Participation in the Technical Program Committee of the conference IEEE DySPAN’07
- ❖ Participation in the Technical Program Committee of the conference APSYS 2007
- ❖ Participation in the Technical Program Committee of the conference PIMRC 2007
- ❖ Poster session co-chair of the conference PIMRC 2007
- ❖ Participation in the Technical Program Committee of the conference IST Mobile Summit 2007
- ❖ Participation in the Technical Program Committee of the DAIS’07

- ❖ Participation in the Technical Program Committee of the CROWNCOM'07
  - ❖ Participation in the Technical Program Committee of the GLOBECOM'07
  - ❖ Participation in the Technical Program Committee of IFIP Wireless Days Conference 2008
  - ❖ Participation in the Technical Program Committee of DAIS08
  - ❖ Participation in the Technical Program Committee of DySPAN 08
  - ❖ Participation in the Technical Program Committee of PIMRC08
  - ❖ Participation in the Technical Program Committee of MACE 2008
  - ❖ Participation in the Technical Program Committee of MWNS'09
  - ❖ Participation in the Technical Program Committee of MobiMedia 2009
  - ❖ Participation in the Technical Program Committee of WiCON 2010 PHY Track
  - ❖ Participation in the Technical Program Committee of Second International Workshop on Cognitive Wireless Cloud Networks 2010(CogCloud'10)
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- **Article and Book Reviews**
    - ❖ Reviewer of the conference IEEE VTC 2003
    - ❖ Reviewer of the conference ASWN 2003
    - ❖ Reviewer of the conference DAIS'03
    - ❖ Reviewer of the conference Networking2004
    - ❖ Reviewer of the conference MWCN 2004
    - ❖ Reviewer of the conference ASWN 2005
    - ❖ Reviewer of the conference PIMRC 2005
    - ❖ Reviewer of the conference INFOCOM 2005
    - ❖ Reviewer of the conference DAIS'05
    - ❖ Reviewer of the conference IST Mobile SUMMIT 2005
    - ❖ Reviewer of the conference SECON'05
    - ❖ Reviewer of the conference IST Mobile SUMMIT 2006
    - ❖ Reviewer of the conference DAIS'06
    - ❖ Reviewer of the conference DySPAN'06

- ❖ Reviewer of the conference DAIS'07
  - ❖ Reviewer of the conference DySPAN'07
  - ❖ Reviewer of the conference CROWNCOM'07
  - ❖ Reviewer of the conference GLOBECOM'07
  - ❖ Reviewer of the conference IFIP Wireless Days 2008
  - ❖ Reviewer of the conference of DAIS08
  - ❖ Reviewer of the conference DySPAN08
  - ❖ Reviewer of the conference PIMRC08
  - ❖ Reviewer of the conference MACE08
  - ❖ Reviewer of the conference ICONS 2009
  - ❖ Reviewer of the journal IEEE Mobile Computing
  - ❖ Reviewer of the journal IEEE Network
  - ❖ Reviewer of the journal IEEE Transactions on Mobile Computing
  - ❖ Reviewer of the journal IEEE Communications Letters
  - ❖ Reviewer of the journal IEEE Wireless Communications
  - ❖ Reviewer of the journal Elsevier COMPUTER NETWORKS
  - ❖ Reviewer of the journal Wireless Communications and Mobile Computing
- **Supervision of researchers**
    - PhD students: 17
    - Dissertation Thesis: 55

## **VII. Excellence, Honors, Invited talks, Contributions to Standards**

- The work of N. Alonistioti is highly cited and recognized by international scientists, providing **over 250 Citations** to her work
- International standardization bodies:
  - **Organization of the 2<sup>nd</sup> members' meeting of the IEEE P1900.4 Standards Working Group. (Founding and voting member (2006-2007) of the IEEE P1900.4 Standards Working Group for the standardization of the Cognitive Pilot Channel and the parameters related with the exchange of policy and**

**context information for cognitive reconfigurable mobile communications).**

- **3GPP TSG-T2 MExE, 24th-26th July, 2001, Athens, Greece:** Organization of the **MExE Group** meeting in Athens and invited speaker for subjects concerning the extension of “classmarking” for 3<sup>rd</sup>-4<sup>th</sup> generation mobile terminals.
- **ICT Group, UMTS Forum, September 2001, Brussels:** Invited speaker for subjects concerning flexible charging and protocols offering system policies in 4<sup>th</sup> generation networks (4G networks).
- **OMG SBC '04 &'05, Arlington, VA, USA, 13-16.09.04 & San Diego, CA, USA, 15-18.08.05:** Speaker for the introduction of an object oriented metamodel and platform independent model for the management of reconfiguration and service provision over 4<sup>th</sup> generation network and systems.
- **TeleManagement Forum, Nov. 5-7, 2005, Dallas:** Proposal Submission in collaboration with Dr. John Strassner (Motorola USA) regarding the introduction of a new management level of the reconfiguration and service provision in 4<sup>th</sup> generation networks and mobile terminals.
- **Panelist** at the conference PIMRC 2007, with subject: “Going Cognitive – Why Bother?”
- **Panelist** at the conference IEEE-PIMRC'2002, Portugal, with subject : “Reconfigurable Radio Towards System Integration”
- **Invited speaker** of the European Commission at the “Workshop on Interconnecting Heterogeneous Wireless Testbeds”, organised by the European Commission, DG INFSO F3 & D1, March 26, 2003, Brussels, Belgium
- **Evaluator for the European Commission for numerous project reviews and audits**
- **Invited Speaker** of the European Commission (General Administration of Mobile Communications), as a representative of the European Research activities at the SDR Forum 2003, Orlando, Florida
- Z. Boufidis, N. Alonistioti, E. Patouni, M. Stamatelatos, M. Muck, and D. Bourse, “A Platform-Independent Model for Autonomously Reconfigurable User Equipment and Network Elements”, *OMG 3rd Software-Based Communications (SBC) Workshop*, Fairfax, VA USA, Mar. 2007
- Z. Boufidis, E. Patouni, and N. Alonistioti, “System Architecture for Autonomously Reconfigurable Heterogeneous Mobile Radio Systems”, *ETSI Software Defined Radio (SDR) / Cognitive Radio (CR) Workshop*, Sophia Antipolis, France, Feb. 2007
- M. Muck, D. Bourse, J. N. Patillon, S. Gault, D. Grandblaise, D. Bateman, E. Patouni, Z. Boufidis, and N. Alonistioti, “IST-E2R Technical Overview”, *IEEE P1900.B Meeting*, Issy-les-Moulineaux, France, Sep. 2006
- E. Patouni, Z. Boufidis, A. Lillis, M. Stamatelatos, and N. Alonistioti, "The Concept of a

Reconfiguration Management Plane", IEEE P1900.B Meeting, Issy-les-Moulineaux, France, Sep. 2006

- **Eurescom:** Dimitrios Xenikos, Nancy Alonistioti, et al., "Potential network architectures for UTRA using SDR-HFR technology", <http://www.eurescom.de/~public-web-deliverables/P900-series/P921/D1/pir52summ.pdf>
- N. Alonistioti, "Downloadable Mobile Value Added Services through Software Radio & Switching Integrated platforms", International Symposium, 3rd Generation Infrastructure and Services, 2-3 July 2001, Athens, Greece
- Markus Mueck, Kari Kalliojärvi, Antti Piipponen, Jens Gebert, Gianmarco Baldini, Pierre-Jean Muller, Liu Guang, Kostas Tsagkaris, Panagiotis Demestichas, Stanislav Filin, Hiroshi Harada, Sithamparanathan Kandeepan, Rahim Abdur, Makis Stamatelatos, Nancy Alonistioti, Aawatif Hayar, Merouane Debbah, Thomas Haustein, ETSI RRS - The Standardization Path to Next Generation Cognitive Radio Systems, PIMRC/CogClouds'10.

## **VIII. Publications**

### **A. PhD thesis.**

**Nancy Alonistioti**, “Open O-O SDL platforms for the specification of protocols and services for UMTS systems and cognitive networks”.

**Supervisor:** Kostas Halatsis

**University of Athens**, 1994 - 1998

### **B. Books / Book chapters**

1. **Co-Editor in** Markus Dillinger , Nancy Alonistioti, Kambiz Madani, “Software defined radio, Architectures, Systems and Functions”, published by **John Wiley**, May 2003 (<http://www.wileyurope.com/WileyCDA/WileyTitle/productCd-0470851643.html>).
2. N. Alonistioti, N. Houssos, “The need for Network Reconfigurability Management”, ISBN 0-470-85164-3 British Library Cataloguing.
3. N. Alonistioti, S. Panagiotakis, M. Koutsopoulou, V. Gazis, “Open APIs for Flexible Service Provision and Reconfiguration Management”, ISBN 0-470-85164-3 British Library Cataloguing.
4. N. Alonistioti, M. Koutsopoulou, “Framework for Charging and Billing for Reconfigurable Services”, ISBN 0-470-85164-3 British Library Cataloguing.
5. S. Panagiotakis and N. Alonistioti, “Location-Based Service Differentiation”, “The Handbook of Mobile Middleware”, CRC Press - Auerbach Publications, ISBN: 0849338336, Publication Date: 9/26/2006, Number of Pages: 1408, Editors: Paolo Bellavista, Antonio Corradi, DEIS, University of Bologna, Italy.
6. Alonistioti N., Polychronopoulos C., Stamatelatos. M., (2008), Intelligent User Interfaces: Adaptation and Personalization Systems and Technologies, Information Science Reference, chapter “Advanced Middleware Architectural Aspects for Personalised Leading-Edge Services”, pp. 94-117.
7. Polychronopoulos C., Stamatelatos M., Alonistioti N. (2008), Knowledge-Based Software Engineering, IOS Press, Piraeus, Greece, chapter “Tracing the Parallel Paths of Knowledge Management in the Organizational Domain and the Autonomic Paradigm”, pp. 87-96.
8. E. Patouni, O. Holland and N. Alonistioti, “Cognitive Functionalities for Mobile Terminal Self-Recovery and Protocol Auto-Configuration”, ISBN: 0-7803-7549-1
9. Panagiotakis, S, Houssos, N., Alonistioti, N, “Integrated generic architecture for flexible service provision tomobile users”, On page(s): B-40-B-44 vol.1, SBN: 0-7803-7244-1

10. N. Alonistioti, [A. Kaloxylos](#), [A. Maras](#): "Mobility management for beyond 3G reconfigurable systems". INSTICC Press 2005, ISBN 972-8865-32-5
11. Panagiotakis, S, Koutsopoulou, M, Alonistioti, A. Thomopoulos, S. " Context sensitive user profiling for customised service provision in mobile environments", 2006-07-24, On page(s): 2014- 2018 Vol. 3 ISBN: 9783800729098
12. Z. Boufidis, N. Alonistioti, M. Stamatelatos, U. Lucking, J. Vogler, C., "End-to-End Architecture for Adaptive Communications Systems", Publication Date: Sept. 2006, ISBN: 1-4244-0063-5
13. E. Patouni, A. Lilis, A. Merentitis, N. Alonistioti, C. Beaujean, D. Bourse, E. Nicollet, "Protocol Reconfiguration Schemes for Policy-based Equipment Management", Publication Date: Sept. 2006, ISBN: 1-4244-0063-5
14. M. Muck, S. Gault, D. Bourse, K. Tsagkaris, P. Demestichas, Z. Boufidis, M. Stamatelatos, N. Alonistioti, "Evolution of Wireless Communication Systems towards Autonomously Managed, Cognitive Radio Functionalities", Publication Date: Sept. 2006 On page(s): 1-5, ISBN: 1-4244-0063-5
15. [A. Glentis](#), N. Alonistioti: Integrated Reconfiguration Management for the Support of End to End Reconfiguration. Springer 2005, ISBN 0-387-23148-X
16. Editors: L. Kutvonen, N. Alonistioti, "Distributed Applications and Interoperable Systems", Springer, LNCS 3543, 2005
17. [V. Gazis](#), Nancy Alonistioti, [L. Merakos](#): "Metadata Design for Introspection-Capable Reconfigurable Systems", LNCS 3042 Springer 2004, ISBN 3-540-21959-5
18. Maria Koutsopoulou, Alexandros Kaloxylos, Nancy Alonistioti and Lazaros Merakos, "A Holistic Solution for Charging, Billing & Accounting in 4G Mobile Systems", On page(s): 2257- 2260, Vol.4 ISSN: 1550-2252 , ISBN: 0-7803-8255-2
19. Alonistioti, N., Glentis, A., Foukalas, F., Kaloxylos, A, "RMP: reconfiguration management plane for the support of policy based network reconfiguration", Volume: 2, On page(s): 1394- 1397, Vol.2 ISBN: 0-7803-8523-3
20. N. Houssos, N. Alonistioti, L. Merakos: "A Scheme for the Introduction of 3rd Party, Application-Specific Adaptation Features in Mobile Service Provision", LNCS 2893 Springer 2003, ISBN 3-540-20529-2
21. V. Gazis, N. Houssos, A. Alonistioti, L. Merakos, "On the complexity of "Always Best Connected" in 4G mobile networks", Publication Date: 6-9 Oct. 2003 Volume: 4, On page(s): 2312- 2316 Vol.4 ISSN: 1090-3038 ISBN: 0-7803-7954-3
22. V. Gazis, N. Houssos, A. Alonistioti, L. Merakos, "Generic System Architecture for 4<sup>th</sup> generation mobile communications", Publication Date: 22-25 April 2003, Volume: 3, On page(s): 1512- 1516, ISSN: 1090-3038 ISBN: 0-7803-7757-5
23. M. Koutsopoulou, A. Kaloxylos, A. Alonistioti, "Charging, Accounting and Billing as a Sophisticated and Reconfigurable Discrete Service for next Generation Mobile Networks", Publication Date: 2002, Volume: 4, On page(s): 2342- 2345, ISSN: 1090-3038 ISBN: 0-

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24. S. Panagiotakis, M. Koutsopoulou, A. Alonistioti, A. Kaloxylos, "Generic Framework for the Provision of Efficient Location-based Charging over Future Mobile Communication Networks", Cinforma Centro di Informatica, ISBN: 0-7803-7589-0
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26. N. Houssos, S. Pantazis, A. Alonistioti, "Generic adaptation mechanism for the support of flexible service provision in 3G networks", Cinforma Centro di Informatica, ISBN: 0-7803-7589-0
27. N. Alonistioti, G. Nikolaidis, I. Modeas, "SDL-based Modeling and Design of IN/UMTS Handover Functionality", SDL'97 – Time for Testing, ISBN: 0444828168, Elsevier Science Publishers.
28. N. Alonistioti, et al., "Mapping of SDL and CORBA Features for Modeling Software Radio Aspects" SRCE, ISSN 1330-1012, 1997
29. N. Alonistioti G. Efthimiopoulos, P. Kostarakis, "Sante-sociale protocol specification", NCSR Demokritos, Technical Report, December 1997.
30. Alonistioti N., P. Kostarakis, K. Dangakis, A. A. Alexandridis, A. Paschalis, N. Gaitanis, S. Xiroutsikos, E. Adilinis, A. Vlahakis, P. Katrivanos, "Integration of Test Procedures and Trials for DECT Handsets", in Testing of Communicating Systems Volume 10, (edited by Myungchul Kim, Sungwon Kang, Keeso Hong), Chapman & Hall, ISBN 0-412-81730-6, 1997, p.p. 57-64
31. N. Alonistioti, "Introduction to the Design and Development of Telecommunications Protocols", Programme of Advanced Education, Project "Integrated Design and Test of Telecommunication Products", Vol. A, Dept. of Electronics, Technological Educational Institute of Athens, Dec. 1998
32. N. Alonistioti, "Service provision and adaptation in reconfigurable networks", Lecture Notes, Mobile and Wireless Communications, Dept. Informatics and Telecommunications, Univ. of Athens.
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34. I.P. Chochliouros, N. Alonistioti, A.S. Spiliopoulou, G. Agapiou, A. Mihailovic and M. Belesioti, "Self-management in Future Internet Wireless Networks: Dynamic Resource Allocation and Traffic Routing for Multi-service Provisioning", F. Granelli, Ch. Skianis, P. Chatzimisios, Y. Xiao and S. Redana (Eds.), Lecture Notes of the Institute for Computer Sciences, Social informatics and Telecommunications Engineering [ISSN 1867-8211 (Print) 1867-822X (Online), Volume 13]
35. A. Kousaridas, G. Nguengang, J. Boite, V. Conan, V. Gazis, T. Raptis and N. Alonistioti, "An experimental path towards Self-Management for Future Internet Environments", G.

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Tselentis, A. Galis, A. Gavras, S. Krco, V. Lotz, E. Simperl, and B. Stiller (Eds.) (pp. 95 – 104). *Towards the Future Internet - Emerging Trends from European Research*, IOS Press, Amsterdam, the Netherlands [ISBN: 978-1- 60750-539-6 (Print) / 978-1-60750-539-6 (online)]

### C. International Journals (with reviewing process)

1. A. Alonistioti, P. Kostarakis, 'Integration and SDL-based Modelling of Generic UMTS Handover Service Architecture and IN.', *International Journal of Communication Systems*, John Wiley & Sons, Ltd ,Vol. 10, 1997, pp. 139-146.
2. S. Panagiotakis, A. Alonistioti, L. Merakos, "Advanced Location Information Management Scheme for Supporting Flexible Service Provisioning in Reconfigurable Mobile Networks", *IEEE Com. Magazine*, Special Issue on "Management of Next-Generation Wireless Networks and Services", Vol. 41, No2, February 2003
3. S. Panagiotakis, A. Alonistioti, "Intelligent service mediation for supporting advanced location and mobility aware service provisioning in reconfigurable mobile networks", *IEEE Wireless Communications*, Special Issue on "Context-Aware Pervasive Computing and IP Multimedia in Next Generation Mobile Networks", Vol. 9, No5, Oct.2002.
4. S. Panagiotakis, M. Koutsopoulou, A. Alonistioti, N. Houssos, V. Gazis, "An advanced service provision framework for reconfigurable mobile networks", *International Journal on Mobile Communications (IJMC)*, Vol.1, No.4, 2003
5. N. Houssos, A. Alonistioti, L. Merakos, E. Mohyeldin, M. Dillinger, M. Fahrmaier and M. Schoenmakers, "Advanced adaptability and profile management framework for the support of flexible mobile service provision", *IEEE Wireless Communications Magazine*, Special Issue on "(R)Evolution towards 4G Mobile Communication Systems", August 2003, Vol. 10, No.4.
6. D. Wisely, H. Aghvami, S. L. Gwyn, T. Zahariadis, J. Manner, V. Gazis, N. Houssos, N. Alonistioti, "Transparent IP Radio Access for Next Generation Mobile Networks", *IEEE Wireless Communications Magazine*, Special Issue on "(R)Evolution towards 4G Mobile Communication Systems", August 2003, Vol. 10, No.4.
7. M. Koutsopoulou, A. Kaloxylos, A. Alonistioti, L. Merakos, P. Philippopoulos, "An integrated Charging, Accounting & Billing management platform for the support of innovative business models in Mobile Networks", *International Journal on Mobile Communications (IJMC)*, Vol. 2 No 4, IJMC, 2004
8. N. Houssos, V. Gazis, A. Alonistioti, "Enabling delivery of mobile services over heterogeneous converged infrastructures", Special Issue of the *Kluwer Information System Frontiers Journal on "Network convergence: Realizing a Dream or a Nightmare?"*, ISF6:3, 189-204, 2004.
9. M. Koutsopoulou, A. Kaloxylos, A. Alonistioti, K. Kawamura, L. Merakos, "Evolution of

- the Charging, Accounting & Billing Management Schemes in Mobile Telecommunication Networks and the Internet", IEEE Communications Surveys and Tutorials, 1st Quarter 2004, vol. 6, no. 1.
10. N. Houssos, N. Alonistioti, L. Merakos, "Specification and dynamic introduction of 3rd party, service-specific adaptation policies for mobile applications", ACM/Springer Journal on Mobile Networks and Applications (MONET), Special Issue on Mobile Services, V.10, 405-421, 2005.
  11. M. Dillinger, N. Alonistioti, N. Olaziregi, T. Wiebke, "Network Functions Supporting Reconfiguration in B3G environments", FREQUENZ, Schiele & Schoen, Ausgabe 5-6, Mai/Juni 2004
  12. N. Houssos, V. Gazis, A. Alonistioti, "Application-transparent adaptation in wireless systems beyond 3G", International Journal of Management and Decision Making (IJMDM), Vol. 6, No.1, 2005.
  13. V. Gazis, N. Alonistioti, L. Merakos, "Towards a Generic "Always Best Connected" Capability in Integrated WLAN/UMTS Cellular Mobile Networks (and Beyond)", IEEE **Wireless Communications** Magazine, Special issue on "Towards Seamless Internetworking of Wireless LAN and Cellular Networks", Vol. 12, No. 3.
  14. V. Gazis, N. Alonistioti, L. Merakos, "Metadata Design for Reconfigurable Protocol Stacks in Beyond 3G", Kluwer Wireless Personal Communications, Volume 36, Issue 1, Year 2006, ISSN:0929-6212
  15. V. Gazis, N. Alonistioti, L. Merakos, "A Generic Model for Reconfigurable Protocol Stacks in Beyond 3G", **IEEE Wireless Communications** Open Call, June 2006
  16. V. Gazis, N. Alonistioti, L. Merakos, "A Generic Architecture For ABC UMTS/WLAN Mobile Networks" for the International Journal of Wireless and Mobile Computing (IJWMC) special issue on "Towards Ubiquitous Wireless Communication: The Integration of 3G/WLAN Networks", accepted for publication
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  20. Z. Boufidis, R. Falk, N. Alonistioti, E. Moyyeldin, N. Olaziregi, B. Souville, "Network support modelling, architecture, and security considerations for composite reconfigurable environments", Special issue "Composite Reconfigurable Radio Networks", **IEEE Wireless**

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24. V.Gazis, E.Patouni, N.Alonistioti and L. Merakos, "A Survey of Dynamically Adaptable Protocol Stacks", accepted for publication in the IEEE Journal on Communications Surveys and Tutorials
25. Z. Boufidis, N. Alonistioti, and L. Merakos, "Architecture and Signaling Protocol for Migration to Cognitive Reconfigurable Post-3G Mobile Systems", publication in *ACM SIGMOBILE Mobile Computing and Communications Review*, 2008.
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## D. Tutorials/White papers

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2. Didier Bourse, Karim El-Khazen, Klaus Moessner, Nancy Alonistioti, Jorg Brakensiek, Tim Hentschel, Tutorial on "End-to-End Reconfigurability": (1) From Software Defined Radio to End-to-End Reconfigurability, (2) Stakeholders Perspectives in End-to-End Reconfigurability, (3) E2R Research on Network, Equipment and Resources Management and Control, (4) E2R Research on Equipment Management and Signalion Rapid Prototyping, (5) Key Challenges to enable the Seamless Experience, June 2005: IST Mobile and Wireless Summit (Dresden, Germany)
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3. A. Merentitis, A. Kaloxylos, M. Stamatelatos, N. Alonistioti, "Optimal Periodic Radio Sensing and Low Energy Reasoning for Cognitive Devices" in the Proceedings of the Mediterranean Electrotechnical Conference (MELECON), 25 – 28 April 2010, Valetta, Malta

4. Kousaridas, A. Mihailovic and N. Alonistioti, "Dynamic Compartment Formation for Coverage Optimization of Cognitive Wireless Networks", The 21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, September 26-29, Istanbul, Turkey.
5. I.P. Chochliouros, M. Belesiotti, E. Sfakianakis A.S. Spiliopoulou, N. Alonistioti and A. Mihailovic, "Self-Manageability in the Context of the Next Generation Networks", To appear in the Proceedings of the 49th international FITCE Congress, 01-04 September 2010, Santiago de Compostela, Spain.
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7. A. Kousaridas and N. Alonistioti, "Topology Control in Self-Managed Wireless Networks", 2nd International Conference of Mobile and Lightweight Wireless Systems - MOBILIGHT 2010 (May10-12, 2010, Barcelona, Spain) (pp.1-10).
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9. J Belschner, P Arnold, E Patouni, A Kousaridas, N Alonistioti, H Eckhardt, E Kühn, A Saatsakis, K Tsagkaris, P Demestichas (2009) Optimisation of Radio Access Network Operation introducing self-x functions: Use Cases, Algorithms, Expected Efficiency Gains In: Vehicular Technology Conference, 2009, VTC Spring 2009, IEEE 69th, Barcelona, Spain, April 26th -29th, 2009
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