



Nancy Alonistioti

Title: Lecturer on Mobile and Wireless Communications

Sector: Telecommunications networks

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Academic Qualifications:

- Ph.D. in Informatics and Telecommunications (1997) Dept. of Informatics and Telecommunications, Univ. of Athens
- B.Sc. in Informatics and Telecommunications (1993) Dept. of Informatics and Telecommunications, Univ. of Athens

Appointments:

- Jan 2009 - today : Lecturer, Dept. of Informatics & Telecom., Univ. of Athens
- Dec 2007 - Dec 2008 : Lecturer, Dept. of Informatics, University of Piraeus
- 12/00-12/01: Expert in Hellenic Telecomm. & Posts Commission
- Jan. 2002 – Dec. 2007 : Collaborative researcher NKUA
- 3/93–12/20: Collaborative Researcher, IIT, NCSR "Demokritos"

Teaching Activities: (current)

Undergraduate courses

- Network Management / Telecomm. Network Programming

Postgraduate courses

- Adv. topics in Mob. Comm./Protocol Design&Specification
- 19 Dissertation Thesis

Research Interests/Activities: (last 10 years)

- Mobile/Wireless Communications (UMTS, Broadband Radio Access Networks, IP networks) and protocol design,
- Future Internet,
- Autonomic and Cognitive Communications,
- Advanced Mobile - Internet Applications and Services,
- M2M and Ad-hoc Networking,
- Self-Management and Policy based decision making,
- Reconfigurability,
- Energy Efficient Networking
- Head of the Self-evolving cognitive and autonomic networking group

Scientific Publications/Citations:

- 30 publications in refereed journals (1 IEEE transactions)
- 130 refereed conference publications
- 1 book and 4 book chapters
- More than 275 citations.

Top five publications

- N. Alonistioti, E. Patouni, V. Gazis: "Generic architecture and mechanisms for protocol reconfiguration", "Mobile Networks and Applications" Journal, Special Issue on

Reconfigurable Radio Technologies in Support of Ubiquitous Seamless Computing, Vol. 11, No. 6., 2006).

- 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.
- E. Patouni, N. Alonistioti, L. Merakos, "Modelling and Performance Evaluation of Reconfiguration Decision-Making in Heterogeneous Radio Network Environments", Transactions on Vehicular Technology, Special issue "Achievements and the Road Ahead: The First Decade of Cognitive Radio", Issue 99, 2010.
- E. Patouni, S. Gault, M. Muck, N. Alonistioti and K. Kominaki "Advanced Reconfiguration Framework based on Game Theoretical Techniques in Autonomic Communication Systems", Annals of Telecomm. Journal, Vol. 62, No 9/10, Sept./Oct. 2007
- Z. Boufidis, N. Alonistioti, and L. Merakos, "Architecture and Signaling Protocol for Migration to Cognitive Reconfigurable Post-3G Mobile Systems", ACM SIGMOBILE Mobile Comp. & Comm. Review, 2008.

Distinctions:

- **Member of the Future Internet Steering Committee, Future Internet Assembly, FIRE.**
- Organizer of the 2nd 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 3rd-4th generation mobile terminals.
- ICT Group, UMTS Forum, September 2001, Brussels: Invited speaker for subjects concerning flexible charging and protocols offering system policies in 4th generation networks (4G networks).

Other Activities:

- Project and/or technical coordinator in 8 EU RD projects.
- Participation in more than 15 R&D projects
- Total **funding** for the SCAN activities in NKUA through R&D projects: ~ **2,5 M€**
- More than 30 program committees