

Paolo Monti – Curriculum Vitae

Date of birth: May 12, 1973.

Gender: Male.

Higher education degree: Laurea Degree (MSc equivalent) in Electrical Engineering. Politecnico di Torino, Italy, May 2001.

Doctoral degree: PhD in Electrical Engineering, The University of Texas at Dallas, TX, USA, December 2005. Supervisor: Prof. Andrea Fumagalli.

Present position: Assistant Professor (Forskare), School of Information and Communication Technology ICT-COS, Royal Institute of Technology (KTH), since November 2013 (80% of time spent in research). Deputy Head, Optical Networks Laboratory, since June 2012.

Previous positions

- Visiting Professor, Scuola Superiore S. Anna, Pisa, Italy, June–October 2014.
- Visiting Researcher, Sato Laboratory, Nagoya University, November–December 2013.
- Assistant Professor (Forskarassistent), School of Information and Communication Technology ICT-COS, Royal Institute of Technology (KTH), November 2009 – November 2013
- Researcher, School of Information and Communication Technology ICT-FMI, Royal Institute of Technology (KTH), September 2008 - October 2009.
- Research Associate, The University of Texas at Dallas, Richardson, TX, USA, 2006 - 2008.
- Research Assistant, The University of Texas at Dallas, Richardson, TX, USA, 2001 - 2005.
- Research Engineer, Boston Communication Networks Inc., Dallas, TX, USA, 1999 - 2000.

Supervision: Current: co-supervisor of 7 PhD students, and 1 Post Doc. Student graduated: 2 PhD (co-supervisor) and 5 master thesis projects.

Membership in journal editorial boards and conference TPCs

Member of the Editorial Board of: *Photonic Network Communications* (Springer), *Networking and Electronic Commerce Journal* (Springer).

Guest editor: *Special Issue on Energy Efficient Optical Networks (lead)*(Springer Photonic Network Communications); *Special Issue on Optical Networks Design and Modeling (ONDM) conference (lead)* (Springer Photonic Network Communications Photonic Network Communications); *Special issue on Green Networking and Computing* (Journal of High Speed Networks),

TPC Chair: *International Conference on Optical Networking Design and Modeling – (ONDM) 2014;*

TPC co-chair: *Optical and Grid Computing Symposium, IEEE ICNC 2014;*

WS chair: *Reliability Issues in Next Generation Optical Networks (RONEXT)*, co-located with *IEEE ICTON* (years: 2012, 2013, 2014);

WS co-chair: *Green Broadband access: energy efficient wireless and wired network solutions* (IEEE Globecom 2014, IEEE ICC 2013); *Data-aware Green Computing, EIDWT-2014;* *Operational aspects in Fiber Access and Mobile Backhaul Networks, OSA/SPIE/IEEE APC 2013, New Trends in Optical Networks Survivability, IEEE ICC 2012, Energy efficient optical communications and networking, OSA/SPIE/IEEE APC 2012.*

TPC member of the following international conferences: IEEE ICC, IEEE ICC, IEEE GLOBECOM, OSA/IEEE APC, IEEE ICTON, IEEE ICICS, IEEE ICNC, IEEE ONDM, International Conference on Network-Based Information Systems (NBIS), IEICE International Conference on Photonics in Switching (PS), SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference (IMOC), IEEE International Conference on Connected Vehicles & Expo (ICCVE), International Conference on Optical Communication Systems (OPTICS), International Conference on 3D Converged IT and Opti-

cal Communications (*3DOC*), Conference on Energy Efficiency on Large Scale Distributed Systems (*EE-LSDC*).

Reviewer

Project proposals: Polish National Science Centre, in Polish Narodowe Centrum Nauki (NCN), Natural Sciences and Engineering Research Council of Canada (NSERC).

Reviewer for the following international journals: *Elsevier Computer Networks*, *Elsevier Optical Switching and Networking*, *IEEE Communications Letters*, *IEEE Journal of Selected Areas in Communications*, *ACM/IEEE Transactions on Networking*, *IEEE Transactions on Wireless Communications*, *IEEE Transactions on Vehicular Technology*, *OSA Journal of Optical Networking*, *OSA/IEEE Journal of Optical Communications and Networking*, *IET Communications*, *Cybernetics and Systems: An International Journal*, *IEEE Transactions on Emerging Telecommunication Technologies*, *IEEE IT Professional*.

Reviewer for the following international conferences: *IEEE GLOBECOM*, *IEEE ICC*, *IEEE WASA*, *IEEE ONDM*, *ACM MSWiM*, *IEEE DRCN*, *IEEE ANTS*, *IEEE RNDM*, *IFIP Networking*, *IEEE Future Network & Mobile Summit*, *IEEE HPSR*, *IEEE ICNC*, *IEEE NETWORKS*, *Simpósio Brasileiro de Micro-ondas e Optoeletrônica (MOMAG)*.

Evaluator of PhD theses: Gerson Rodríguez de los Santos López, *Universidad Carlos III de Madrid*, Spain, Ramon Aparicio Pardo, *Technical University of Cartagena*, Spain. Marc Ruiz Ramírez, *Universitat Politècnica de Catalunya*, Spain, Sergio Ricciardi, *Universitat Politècnica de Catalunya*, Spain.

Leadership in selected projects

- Project manager for: (i) *GreenHaul: energy efficient backhauling for HetNet wireless deployments*, Wireless@KTH seed project, to initiate a new research area (sponsor Vinnova); (ii) *Time Constrained Optimization Algorithms for Wavelength Division Multiplexing (WDM) and Optical Data Unit (ODU) Networks*, corporate sponsored project to develop a planning tool for a multi layer (ODU and WDM) network (sponsor corporate); (iii) *Network planning tool for mesh based single layer MPLS/packet-transport networks*, corporate sponsored project to develop a planning tool for MPLS/packet-transport networks (the prototype was successfully converted into product and it is currently used by the company) (sponsor corporate).
- Management Committee Member and Swedish representative for: COST Action IC0804 on *Energy efficiency in large scale distributed systems*, COST Action IC1101 on *Optical Wireless Communications*, and COST IC1303 on *Algorithms, Architectures and Platforms for Enhanced Living Environments (AAPELE)*. (sponsor EU COST office).
- KTH scientific coordinator for the project *All Optical Overlay Networks* (sponsor Vinnova).
- Work package leader in: *Optical Networking Systems* (sponsor The Next Generation (TNG) Strategic Research Area (SRA) initiative), *5Green: Toward Green 5G Mobile Networks* (sponsor EIT ICT Labs, EU).
- Coordinator of the Swedish part of the project *Management Platform for Next Generation of Optical Networks*, MANGO, Eureka/Celtic.

Key scientific/research/teaching qualifications

Main research interests are within the networking aspects of all-optical networks while part of his work has recently focused on smart cities and on the energy efficiency of telecommunication networks with particular emphasis on current and future converged (wired + wireless) broadband access solutions.