

# Distinguished Lecturers



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## DISTINGUISHED LECTURERS

Appointments are 2 years (with an option of 2 additional years); asterisk denotes date each appointment concludes.

\* term effective through 31 December 2013

\*\* term effective through 31 December 2014

Nazim [dot] Agoulmine[at] iup [dot] univ-evry [dot] fr (Nazim Agoulmine) \*\*  
France

- Communication and Bio-Sensors Technologies Integration for Cost-Effective Ubiquitous Healthcare
- Energy Efficiency in Mobile Healthcare Systems

- Autonomic Fixed and Wireless Networks: Concepts and Implementations

aissa[at] emt [dot] inrs [dot] ca (Sonia Aissa) \*\*  
Canada

asatanik[at] cc [dot] kogakuin [dot] ac [dot] jp (K. Asatani (Koichi)) \*\*  
Japan

- NGN(Next Generation Networks) and FN(Future Networks)
- VoIP, IP Telephony
- Communications QoS & Reliability
- Access Networks
- Wireless LAN and Broadband Internet
- Regulatory Issues of NGN and Internet

h [dot] anthony [dot] chan[at] huawei [dot] com (Anthony Chan) \*\*  
USA (TX)

- Distributed mobility for future mobile Internet
- Wireless network and Internet standards
- Role of Telecommunication in Developing Countries and Digital Divide
- Unification with Networking

mouli[at] stevens [dot] edu (Rajarithnam Chandramouli) \*\*  
USA (NJ)

chiangm[at] princeton [dot] edu (M. Chiang (Mung)) \*  
USA (NJ)

- Teaching Networking via 20 Questions

marco [dot] chiani[at] unibo [dot] it (M. Chiani (Marco)) \*  
Italy

- Fundamentals and Advances in MIMO Communication Systems and Networks
- Application of random matrices theory to communications and signal processing

- Spectrum Sensing for Cognitive Radio: fundamental limits and multiple antenna based methods
- Codes on Graphs for Throughput Enhancement, Packet Loss Correction and Multiple Access

gchrisikos[at] ieee [dot] org (G. Chrisikos (George)) \*  
USA (CA)

mischa [dot] dohler[at] cttc [dot] es (M. Dohler (Mischa)) \*  
Spain

- Machine-to-Machine: Technologies, Standards and Applications
- ICT Technologies in Smart Cities and Smart Grids
- Femtocells: Technologies, Standards and Applications
- Cognitive and Docitive Networks
- Design Principles Towards 5G High-Capacity System
- [2012 AP Tour](#) | [2012 NA Tour](#)

j [dot] m [dot] h [dot] elmirghani[at] leeds [dot] ac [dot] uk (Jaafar Elmirghani) \*\*  
UK

- Energy efficient core networks
- Renewable energy in core and data centre networks
- Green content distribution networks
- Energy efficient Peer-to-Peer and IPTV networks
- Optical wireless communication systems
- Multigigabit indoor optical wireless multi-user and cooperative systems

jfang[at] ambras [dot] com (M. Fang (Yuguang Michael)) \*  
USA (FL)

- A few selected research issues in wireless networks
- Cross-layer design for wireless networks
- Securing resource-constrained wireless networks
- Small world phenomena in wireless ad hoc networks
- Secure network connectivity and capacity
- Privacy and security for mobile healthcare systems
- Wireless medium access control protocols
- [2012 AP Tour](#)

Fernando[at]ee[dot]ryerson[dot]ca (X. Fernando (Xavier)) \*  
Canada

- Radio over Fiber Systems
- Communication Requirements for the Smart Grid
- Wireless Sensor Networks for Smart, Green Buildings
- Wireless Communications for the Aerospace Industry
- Low Interference Wireless Communications for Biomedical Application
- Underground Communication Systems for Saving Miners Life
- [2012 LA Tour](#)

e[dot]gelenbe[at]imperial[dot]ac[dot]uk (Erol Gelenbe) \*\*  
UK

- Smart Networks at the Edge
- Networks for Emergency Management
- Cognitive Packet Networks
- Bio-Inspired Networks
- Auction Systems and E-Commerce
- Product Form Networks ? Discovery or Invention?
- Search in Infinite Unknown Environments

granelli[at]disi[dot]unitn[dot]it (Fabrizio Granelli) \*  
Italy

- Green wireless networking: energy efficiency in wireless networks
- Cognitive and adaptive networking: self-management at the service of network evolution
- Networking and the Smart Grid: the relevance of communications in the future of power grid
- Design of green networks: towards the Green Internet
- [2012 NA Tour](#) | [2012 LA Tour](#)

mahbub[at]cse[dot]unsw[dot]edu[dot]au (Mahbub Hassan) \*\*  
Australia

- Vehicular Communications and Networking
- Content Streaming for Mobile Devices

ekram[at]ee[dot]umanitoba[dot]ca (Ekram Hossain) \*  
Canada

- Radio resource management in next generation hierarchical cellular wireless networks

- Interference modeling in random carrier-sense multiple access (CSMA) wireless networks
- Dynamic spectrum access in cognitive radio networks
- Game theory for multiple access and resource allocation in wireless networks
- Communications and networking technologies for the smart grid
- Radio technologies for wireless personal area networks
- [2013 AP Tour](#)

gabejakobson[at] earthlink [dot] net (Gabriel Jakobson) \*  
USA (MA)

- Introduction to Situation Management of Complex Networks and Systems Operations
- Introduction to Cognitive Situation Management of Tactical Operations
- Cyber Security Situation Awareness and Impact Assessment: Issues, Models and Applications
- New Directions in Cyber Security: Achieving Cyber Attack Tolerant Missions and Business Processes

syed[at] uci [dot] edu (Syed Jafar) \*\*  
USA (CA)

- Interference Alignment
- Index Coding

kamal[at] iastate [dot] edu (Ahmed Kamal) \*\*  
USA (IA)

- Multicasting in Cognitive Radio Networks
- [2013 EMEA Tour](#)

kato[at] it [dot] ecei [dot] tohoku [dot] ac [dot] jp (Nei Kato) \*  
Japan

- Ad Hoc & Sensor Networks: Recent Trends and Future directions

krunz[at] email [dot] arizona [dot] edu (Marwan Krunz) \*\*  
USA (AZ)

lampe[at]ece[dot]ubc[dot]ca (Lutz Lampe) \*  
Canada

- Power Line Communications - Advanced Signal Processing and Communication Theory
- Power Line Communications - From Home Networking to Smart Grid
- Physical Communications Techniques for Smart Grid

jingli[at]ece[dot]lehigh[dot]edu (Tiffany Jing Li) \*  
USA (PA)

- Wireless Networked Communication: Unifying Source Coding, Channel Coding, and Network Coding
- Order Out of Chaos: A New Paradigm of Error Correction Coding with Application to Sensor Networks and Image Transmission
- Linear Analog Codes: The Good, the Bad and the Unknown
- Exploring A New Face of Turbo Codes: From Binary Codes to Real Number Codes
- Theory and Practice of Distributed Source Coding: Generality, Optimality, and Rate Adaptivity
- Wireless Localization: The Challenging Cases of Indoor, 3D and Network Localization

liangyc[at]ieee[dot]org (Ying-Chang Liang) \*\*  
Singapore

- Cognitive Radio Networks
- Cooperative Wireless Communications

lorenz[at]ieee[dot]org (Pascal Lorenz) \*\*  
France

- NGN (Next Generation Networks)
- QoS and QoE
- Networking Protocols
- Wireless LAN and Broadband Internet
- Service and Network Convergence

emdma[at]ntu[dot]edu[dot]sg (Maode Ma) \*\*  
Singapore

- Enhancements of Security Functionality for LTE/LTE-A Wireless Networks

narayan[at]winlab[dot]rutgers[dot]edu (Narayan Mandayam) \*

USA (NJ)

- Backhauling in TV White Spaces
- Network Coding as a Dynamical System
- Enabling Cognitive Radio Networks
- Green Techniques for Wireless Communications
- Forces and Strategies that Shaped the Wireless Revolution
- [2012 AP Tour](#)

niuzhs[at] tsinghua [dot] edu [dot] cn (Zhisheng Niu) \*  
China

- A Paradigm Shift to Globally Resource-optimized and Energy-Efficient Networks (GREEN)
- TANGO: Traffic-Aware Network planning and Green Operation
- CHORUS: Collaborative and Harmonized Open Radio Ubiquitous Systems
- Collaborative Radio Resource Management in Multiple Radio Networks

papadias[at] ait [dot] edu [dot] gr (Constantinos Papadias) \*  
Greece

- Basics of MIMO systems
- Multi-user and Cooperative MIMO Systems
- Compact Antennas for MIMO Communication

neeli [dot] prasad[at] ieee [dot] org (Neeli Prasad) \*\*

- Internet of Things (IoT), Machine to Machine (M2M) and enabling technologies
- Secure Frameworks and Architectures
- Social Networking
- Smart cities and communities

kkrama[at] research [dot] att [dot] com (K. K. Ramakrishnan) \*  
USA (NJ)

- Networking the Cloud: Enterprise-ready Cloud Computing and Storage Services
- Building an end-end nationwide IPTV service
- [2012 AP Tour](#)

ross[at] poly [dot] edu (Keith Ross) \*\*

schupke[at] ieee [dot] org (Dominic Schupke) \*\*  
Germany

- Resilience in Network Virtualization
- Multi-Layer Networking

touch[at] isi [dot] edu (Joe Touch) \*\*  
USA (CA)

- A Recursive Network Architecture for the Future Internet
- An Optical Turning Machine for High-Speed Networking
- The Case for Weaker Network Security
- Breaking the Internet Hourglass: One Packet Only and Other Curiosities
- Internet Policy and Piracy: The Good, the Bad, and the Practical

uyar[at] ccny [dot] cuny [dot] edu (Umit Uyar) \*  
USA

j [dot] z [dot] wang[at] kent [dot] ac [dot] uk (Jiangzhou Wang) \*\*  
UK

- In-building distributed antenna systems for broadband wireless communications
- Device to device communications in cellular networks
- Small cells and heterogeneous networks
- Massive MIMO

junshan [dot] zhang[at] asu [dot] edu (Junshan Zhang) \*\*  
USA (AZ)

- Fundamentals of Distributed Opportunistic Scheduling
- Networked Communication and Computation for Wind Generation Forecast
- Network Interdependence in Cyber-physical Systems

xizhang[at] ece [dot] tamu [dot] edu (X. Zhang (Xi)) \*\*  
USA (TX)

- Statistical QoS Guarantees for Wireless Communications Networks
- Cross-Layer Optimization for Cognitive Radio Wireless Networks
- Mobile Multicast Communications over Wireless Networks
- Multimedia Wireless Sensor Networks



- Wideband Communications and QoS Provisionings for Vehicular Networks
- Advances in Cooperative Wireless Communications and Relay Networks
- Wireless Network Coding

zhenshengz[at] gmail [dot] com (Z. Zhang (Zhensheng)) \*  
USA (CA)

- Disruption/delay tolerant networks: overview and challenges
- Energy efficient wireless sensor networks
- Software defined cognitive radios and dynamic spectral allocation (DSA)
- Integration of wireless networking and personal health (e-health), and standards on IEEE personal health device (PHD)
- Satellite based automatic identification System (AIS)

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