

IEEE Communications Society

Past Distinguished Lecturers

Last updated 1/12/2018

Speaker Name	DL Topics	DL Term
Behnaam Aazhang	<ul style="list-style-type: none">• Multiuser communication• Multiple access communication• Spectrum Sharing in wireless communication• Cooperative Communication• Scheduling in Wireless Communication• Feedback in Wireless Communication	Term effective through 31 December 2007
Hamid Aghvami	<ul style="list-style-type: none">• Delivering Ubiquitous Services Over Heterogeneous Networks (In the Context of End-to-End Networking)• Future Broadband Access Networks-Challenges	Term effective through 31 December 2006
Nazim Agoulmine	<ul style="list-style-type: none">• 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	Term effective through 31 December 2014
Salah Aidarous	<ul style="list-style-type: none">• New Technologies (3G, IP, WDM) Impact on Network Operations• Evolution to NGOSS and Transition Strategies	Term effective through 31 December 2002
Sonia Aissa	<ul style="list-style-type: none">• Cognitive Radio and Dynamic Spectrum Access• Energy Harvesting Communication Networks• Wireless Power Transfer	Term effective through 31 December 2016

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Ozgur Akan	<ul style="list-style-type: none">● Fundamentals of Nanoscale Communications● Bio-inspired Communication and Networking● Introduction to Molecular Communications and Nanonetworks● Carbon-nanotube (CNT)-based Nanoscale Ad Hoc and Sensor Networks● Cognitive Radio Sensor Networks● Next-generation Wireless Sensor Networks● Multimedia Communications: Now and Future● Deep Space Communications and InterPlaNetary Internet	Term effective through 31 December 2012
Ian Akyildiz	<ul style="list-style-type: none">● Cognitive Radio Networks● Cognitive Ad Hoc Networks● Wireless Multimedia Sensor Networks● Sensor networks in Challenging Environments such as Underwater and Underground● Wireless Mesh Networks● Nano-Networks: A New Communication Paradigm● Wireless Networking in the Next Decade	Term effective through 31 December 2009
Mohamed-Slim Alouini	<ul style="list-style-type: none">● Addressing spectrum scarcity through optical wireless communications● Pushing the envelope of wireless sensor networks	Term effective through 31 December 2017
Khaled Amer	<ul style="list-style-type: none">● Architecture Analysis and performance modeling of network systems and protocols	Term effective through 31 December 2006
Nirwan Ansari	<ul style="list-style-type: none">● Network Security (in particular, Tracing Cyber Attacks)● TCP in Heterogeneous Environments● Optical Networks (such as Bandwidth Allocation in EPONs and RPR)● Active Queue Management	Term effective through 31 December 2009

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Koichi Asatani	<ul style="list-style-type: none">● 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	Term effective through 31 December 2014
Victor Bahl	<ul style="list-style-type: none">● Wireless Mesh Networks● Wireless Network Management● Enterprise Network Management● Cognitive Wireless Networking & Spectrum Management	Term effective through 31 December 2008
Albert Banchs	<ul style="list-style-type: none">● Offloading Cellular Traffic through Opportunistic Communications● Performance Analysis and Optimization of wireless networks● An Overview of 5G mobile networks● Applying control and game theory to wireless networking	Term effective through 31 December 2017
Zeke Bar-Ness	<ul style="list-style-type: none">● Peak to average reduction in OFDM-MIMO● Adaptive modulation coding and power allocation for OFDM-MIMO● Effect of phase noise on OFDM and OFDM-MIMO schemes● MIMO Hybrid ARQ for highly frequency selective and time varying channel● Modulation Classification for Emerging Communication Technologies	Term effective through 31 December 2007

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Norman C. Beaulieu	<ul style="list-style-type: none">• Ultra-Wide Bandwidth (UWB) Receiver Performance Analysis• UWB Receiver Structures for Multiple User Interference• Diversity and Fading Channels• Interference in Wireless Systems• Pulse-Shaping• Wireless Communication Theory• Fading Channel Modeling and Simulation• Importance Sampling and Rejection Sampling Techniques	Term effective through 31 December 2015
Ali Begen	<ul style="list-style-type: none">• Multimedia Communications• Networked Entertainment• IPTV Technologies and Content Delivery• Over-the-Top Video and Streaming	Term effective through 31 December 2017
Randall Berry	<ul style="list-style-type: none">• Spectrum Sharing Economics• Interference Games• Market design and dynamic spectrum sharing	Term effective through 31 December 2015
Vijay K. Bhargava	<ul style="list-style-type: none">• Green Cellular Networks: A Survey, Some Research Issues and Challenges• Multigigabit Wireless Multimedia Communications: Future and Core Technologies• Information Security and its Impact on Society• From Marconi to Wireless Internet: A Communications Perspective	Term effective through 31 December 2010
Ezio Biglieri	<ul style="list-style-type: none">• Coding for Fading Channels• Multiple Transmit and Receive Antennas: Capacity Limits, Space-Time Codes, and Signal Processing• Turbo Algorithms for Decoding, Equalization, and Detection: A Graphical Approach	Term effective through 31 December 2006

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Benny Bing	<ul style="list-style-type: none">● Emerging Technologies of Wireless LANs: Theory, Design, and Deployment● Next Generation Broadband Wireless Access● Broadband Cable and Fiber Access● Software Defined Radio and Cognitive Radio Networks● Multiple Access Communications	Term effective through 31 December 2008
Azzedine Boukerche		Term effective through 31 December 2012
Raouf Boutaba	<ul style="list-style-type: none">● Autonomic Computing and Communications	Term effective through 31 December 2009
Stefano Bregni	<ul style="list-style-type: none">● Synchronization of Digital Telecommunications Networks	Term effective through 31 December 2008
Stephen Bush	<ul style="list-style-type: none">● Nanoscale Communication Networks● Smart Grid: Communication-Enabled Intelligence for the Electric Power Grid	Term effective through 31 December 2012
Anthony Chan	<ul style="list-style-type: none">● 5G and Future Wireless Internet: Changes and Challenges● Software Defined Network and Network Function Virtualization for Wireless Networks● Distributed Mobility for Future Mobile Internet● Role of Communication and Networking in Developing Countries and Digital Divide	Term effective through 31 December 2016
Rajarithnam Chandramouli	<ul style="list-style-type: none">● Dynamic Spectrum Access Wireless Networking● Big Data Problems in Social Network Modeling and Analytics	Term effective through 31 December 2014

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Wai Chen	<ul style="list-style-type: none">• Advances in Vehicle Information Networking	Term effective through 31 December 2006
Shigang Chen	<ul style="list-style-type: none">• Virtual Sketches and Space Sharing: A Tool Box for Big Data• Compact and Fast Network Measurement Methods• Infrastructural RFID Systems and Their Impact on Internet of Things	Term effective through 31 December 2017
Tee Hiang Cheng	<ul style="list-style-type: none">• All-Optical Photonic Packet Switching: What Have Changed and What Have Not Changed After 20 Years?• Optical Access Networks: Past, Present and Future• Doppler Effect and Its Engineering Applications	Term effective through 31 December 2012
Yu Cheng	<ul style="list-style-type: none">• Optimizing wireless networks in a uniformed multi-dimensional resource framework• Real-time intrusion detection for multimedia application over wireless networks• Towards a secure and efficient vehicular ad hoc network	Term effective through 31 December 2017
Giovanni Cherubini	<ul style="list-style-type: none">• Data transmission techniques for storage applications• Filter-bank modulation techniques for transmission over frequency-selective channels	Term effective through 31 December 2007
Nim Cheung	<ul style="list-style-type: none">• Technology and Architecture Trends in Optical Networking• The Role of Optical Interconnect in Supercomputing	Term effective through 31 December 2008
Mung Chiang	<ul style="list-style-type: none">• Teaching Networking via 20 Questions	Term effective through 31 December 2013

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Marco Chiani	<ul style="list-style-type: none">● 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	Term effective through 31 December 2012
George Chrisikos		Term effective through 31 December 2015
J.R. Cruz	<ul style="list-style-type: none">● The Role of Communications Signal Processing in Storage● Systems Signal Processing and Coding for Perpendicular Magnetic Recording● Advanced Channel Detection and Iterative Decoding for Hard Disk Drives	Term effective through 31 December 2010
Shuguang Cui	<ul style="list-style-type: none">● An integrated approach to big data analytics and networking● Renewable energy powered communication system design● Big data aware next-generation cellular design	Term effective through 31 December 2016
Uday B. Desai	<ul style="list-style-type: none">● Wireless Sensor Networks: AgriSens and SenSlide● Self Organizing Networks: Multihop Routing and Access Mechanism● Multi- hop Cellular Networks● ICT for Socioeconomic Development● Cell Phone Based Wireless Sensor Networks: Layered Routing	Term effective through 31 December 2009

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Celia Desmond	<ul style="list-style-type: none">• Trends in the Telecommunications Industry• Project Management for Telecommunications Managers• Coaching for Managers• Communications Course – Making Yourself Heard	Term effective through 31 December 2008
Michael Devetsikiotis	<ul style="list-style-type: none">• Challenges in Service Oriented and Application Aware Networking• Modeling and Simulation Techniques for Communication Networks• Towards Network Enabled Collaboration and Innovation• Formal Methods for Cross Layer Quantitative Modeling of Networks• Adaptivity Mechanisms in Next Generation Networks• Pricing and Optimization of Service Oriented Next Generation Networks• Traffic Characterization and Analysis for Next Generation Networks	Term effective through 31 December 2011
Zhi Ding	<ul style="list-style-type: none">• Hybrid ARQ and Retransmission Diversity Optimization in Wireless Communications• Approaches to Wireless MIMO Channel Feedback• Cognitive Wireless Networks• Optimum Transmitter Precoding in Hybrid ARQ for Wireless MIMO Communications• Fast Wireless Source Localization and Sensor Placement• Quadratic Programming in Blind Equalization	Term effective through 31 December 2009

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<p>Mischa Dohler</p>	<ul style="list-style-type: none"> ● 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 ● The Tactile Internet - The Next Tech Frontier? ● Is 5G Going To Power The IoT? ● Research, Innovation & Entrepreneurship in a 21st Century Ecosystem 	<p>Term effective through 31 December 2015</p>
<p>Klaus Dostert</p>	<ul style="list-style-type: none"> ● Possibilities and Limitations of Broadband over Power Lines (BPL) or Power Line Communication (PLC) ● Channel Models for the Electrical Power Distribution Grid as a Communication Medium (Simulation & Emulation) ● Aspects of BPL or PLC Modem Design, Based on Multi-Carrier Signaling ● Analysis and Solutions for EMC Issues with BPL or PLC 	<p>Term effective through 31 December 2008</p>
<p>Falko Dressler</p>	<ul style="list-style-type: none"> ● Inter-Vehicular Communication: Protocols and Simulation Techniques ● Self-Organization in Sensor and Actor Networks ● Biologically-inspired and Nano-scale Communication and Networking 	<p>Term effective through 31 December 2012</p>
<p>Tarek S. El-Bawab</p>	<ul style="list-style-type: none"> ● Telecommunication Engineering Education (TEE) ● Broadband Access ● Telecommunication Standards 	<p>Term effective through 31 December 2017</p>

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<p>Jaafar Elmirghani</p>	<ul style="list-style-type: none"> ● Energy efficient core networks ● Green content distribution networks ● Network and data centre virtualization ● Data centre disaggregation ● Optical networks in data centres ● Energy efficient core networks ● Renewable energy in core and data centre networks ● Energy efficient Peer-to-Peer and IPTV networks ● Visible light communications ● Optical wireless communication systems ● Multigigabit indoor optical wireless multi-user and cooperative systems 	<p>Term effective through 31 December 2016</p>
<p>Tony Ephremides</p>	<ul style="list-style-type: none"> ● Wireless Ad Hoc Networks ● Network Coding As A New Paradigm In Networking ● Energy Efficiency In Wireless Networks ● Cross-Layer Issues In Network Design ● Sensor Networks ● Stability Issues In Wireless Networks ● Power Control In Ad Hoc Networks ● New Directions And Challenges In Wireless Networking 	<p>Term effective through 31 December 2009</p>
<p>Javan Erfanian</p>	<ul style="list-style-type: none"> ● End-to-end Wireless Technology Evolution ● New Paradigms and Future Service Environment ● Emerging User Requirements & Key Research Areas 	<p>Term effective through 31 December 2008</p>
<p>Yuguang Michael Fang</p>	<ul style="list-style-type: none"> ● 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 	<p>Term effective through 31 December 2015</p>

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<p>Xavier Fernando</p>	<ul style="list-style-type: none"> ● 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 	<p>Term effective through 31 December 2013</p>
<p>Xiaoming Fu</p>	<ul style="list-style-type: none"> ● Content Distribution: From Client/Server to Content-Oriented Publish/Subscribe System ● Scaling Microblogging Services with Divergent Traffic Demands ● Network Friendly TCP for Background Delay-Insensitive Applications 	<p>Term effective through 31 December 2015</p>
<p>Jacob Gavan</p>	<ul style="list-style-type: none"> ● Radio Frequency Systems Interference and Radiation Effects: Analysis, Computation and Mitigation Techniques ● Radio Systems Collocation Non Linear Mutual Interference Effects: Analysis, Computation and Mitigation Techniques ● Electromagnetic Analysis and Simulation of RF base stations and Headsets Radiation Effects and Development of Mitigation Techniques ● RADAR and LADAR multimode systems for detection and tracking cooperative targets with optimum accuracy and operation ranges ● Stratospheric Quasi Stationary Platforms (SQSP) as complement to Ground Cellular Systems for Improving Radio-Communication Performances ● Hypothesis of Hornets (or other Flying Creatures) Biological RADAR and Direction Finding Systems and Future Applications ● Overview of Navigation Techniques Leading to Global Positioning Systems with Optimum Reliability and Accuracy ● Overview of Mobile Satellite Systems ● Overview of Smart Antennas ● Radio Frequency Identification Devices (RFID) EMC performances: Analysis and Mitigation Techniques 	<p>Term effective through 31 December 2009</p>

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Erol Gelenbe	<ul style="list-style-type: none">• 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	Term effective through 31 December 2014
Alex Gelman	<ul style="list-style-type: none">• Standardization Activities in IEEE - A Service to the Membership, Industry, and Humanity	Term effective through 31 December 2012
Hamid Gharavi	<ul style="list-style-type: none">• Wireless Multimedia Communications• Ad-hoc Networks Systems & Applications	Term effective through 31 December 2006
Jerry Gibson	<ul style="list-style-type: none">• Voice and Video over Wireless Local Area Networks• Voice Capacity under Quality Constraints for IEEE 802.11a Wireless LANs• Multiple Descriptions and Path Diversity for Voice Communications over Wireless Mesh Networks	Term effective through 31 December 2006
Roch Glitho	<ul style="list-style-type: none">• Next Generation Networks• IP Telephony• Architectures for End User Services• Network Interworking	Term effective through 31 December 2009

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Andrea Goldsmith	<ul style="list-style-type: none"> ● Capacity Limits of Wireless Channels/Networks ● Multiple-Antennas in Wireless Links/Networks ● Space-Time-Frequency Agile Radios ● Energy-Constrained Communication ● Cross Layer Design of Wireless Systems ● Wireless Ad Hoc and Sensor Network Design ● Multimedia over Wireless ● Distributed Control over Wireless Networks 	Term effective through 31 December 2010
Fabrizio Granelli	<ul style="list-style-type: none"> ● 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 	Term effective through 31 December 2015
Song Guo	<ul style="list-style-type: none"> ● Cross-Cloud Resource Management for Big Data ● Traffic-aware Geo-distributed Big Data Analytics with Predictable Performance ● Robust Incentive Mechanisms for Cognitive Radio Networks ● Device-to-Device Communication in Cellular Networks 	Term effective through 31 December 2017
Andrei Gurtov	<ul style="list-style-type: none"> ● Software Defined Mobile Networks: Beyond LTE Network Architecture ● Introduction to Host Identity Protocol and Its Practical Applications ● Security and Smartness for Medical Sensor Networks*Design and Implementation of Secure Distributed Systems and Networks ● Fair bandwidth allocation in datacenters 	Term effective through 31 December 2017

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Zygmunt J. Haas	<ul style="list-style-type: none"> ● Ad Hoc Networking Technology: from Research to Applications ● Scalability of Wireless Networks ● Security in Wireless Networks ● Biologically-Inspired Networks and Systems ● Sensor Networks 	Term effective through 31 December 2007
Ibrahim Habib	<ul style="list-style-type: none"> ● GMPLS Control of IP optical Networks ● Architecture Design of Metro Optical Networks ● Traffic Engineering and QoS in Next Generation Networks ● Wireless Local and Metro Area Networks ● 3G and Beyond Networks 	Term effective through 31 December 2007
Bechir Hamdaoui	<ul style="list-style-type: none"> ● Cognitive radio and dynamic spectrum access networking ● Green datacenters ● Cloud computing resource management ● Network virtualization and cloud of things ● Heterogeneous networks 	Term effective through 31 December 2017
Lajos Hanzo	<ul style="list-style-type: none"> ● Wireless Multimedia Turbo-transceivers ● Wireless Video Communications ● Joint Source- and Channel Coding ● Near-Instantaneously Adaptive Wireless Single-Carrier, OFDM and CDMA Systems ● Turbo Coding, Turbo Equalisation and Space-Time Coding ● Standard-Oriented, Channel-Quality Motivated, Service-Related and Algorithmic Aspects of Software-Controlled Radios ● Research in Single- and Multi-Carrier CDMA ● Research aspects of OFDM ● Cross-layer optimization in Wireless Communications ● Genetic Algorithms in Wireless Communications ● Smart Antennas in Wireless Communications ● Advanced Wireless Networking 	Term effective through 31 December 2007

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Fred Harris	<ul style="list-style-type: none"> ● Synchronizing Digital Receivers ● DSP to Improve Receiver Performance(I-Q Mismatch, DC-Cancel, etc) ● DSP in Modern Digital Communications ● OFDM from A DSP Perspective ● Software Defined Radio ● Channelized Receivers ● A Short History of Radio 	Term effective through 31 December 2009
Mahbub Hassan	<ul style="list-style-type: none"> ● Vehicular Communications and Networking ● Content Streaming for Mobile Devices ● Nano-scale Communications and Networking 	Term effective through 31 December 2016
Hossam Hassanein	<ul style="list-style-type: none"> ● Enabling Ubiquitous Mobile Services ● Next Generation Broadband Wireless Access Networks ● Resource Management in Heterogeneous Wireless Networks ● Enabling Mobile Computing in Wireless Ad hoc Networks ● Planning and Device Deployment in Wireless Sensor Networks 	Term effective through 31 December 2010
Ekram Hossain	<ul style="list-style-type: none"> ● Evolution towards 5G cellular wireless networks ● 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 	Term effective through 31 December 2015

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Heather E. Hudson	<ul style="list-style-type: none"> ● From Rural Village to Global Village: The Role of Telecommunications in Socio-Economic Development ● Bridging the Broadband Divide: Strategies for Rural and Developing Regions ● Universal Service Funds: Accelerators or Anachronisms? ● Broadband Policies and Funding Strategies in North America (Canada and U.S.) ● Rethinking Remoteness: VOIP, YouTube, and Development ● Rural Telemedicine: Lessons from Alaska ● Municipal Broadband: Lessons from the U.S. Experience ● The Wireless Explosion: Connectivity for the Developing World 	Term effective through 31 December 2011
Syed Jafar	<ul style="list-style-type: none"> ● Interference Alignment ● Index Coding 	Term effective through 31 December 2014
Hamid Jafarkhani	<ul style="list-style-type: none"> ● Distributed Beamforming in Wireless Relay-Interference Networks ● Cooperative Communications ● Limited Feedback Beamforming in MIMO ● Distributed Space-Time Coding 	Term effective through 31 December 2015
Raj Jain	<ul style="list-style-type: none"> ● Computer Networking: Recent Developments, Trends, and Issues 	Term effective through 31 December 2006
Andrzej Jajszczyk	<ul style="list-style-type: none"> ● Next-Generation Networking Solutions & Challenges ● Towards Automatically Switched Optical Networks (ASON) 	Term effective through 31 December 2005

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Gabriel Jakobson	<ul style="list-style-type: none">● 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	Term effective through 31 December 2013
Gabe Jakobson	<ul style="list-style-type: none">● The Principles of Dynamic Event and Situation Management● Introduction to Cognitive Information Fusion and Operational Situation Management● Introduction to Event Correlation Models, Solutions and Applications● Real-Time Network Fault and Alarm Management● Management of Dynamic Networks and Services Based on Distributed Event Correlation● The Technology and Practice of Integrated Multi-Agent Event Correlation Systems	Term effective through 31 December 2009
Abbas Jamalipour	<ul style="list-style-type: none">● Broadband Wireless IP● Next Generation Mobile Network Architectures● Heterogeneous Mobile Cellular Networks	Term effective through 31 December 2009

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<p>Anura Jayasumana</p>	<ul style="list-style-type: none"> ● Internet of Things: A pervasive Technology for Innovation ● Network Aware Nodes: A Novel Self-Organization Approach for Internet of Things ● Topology Coordinate Systems - A Localization Free Approach for Self-Organization of Large-Scale 2D and 3D Sensor Networks ● On Modeling and Measurement of Networks and Network-based Information ● Detection of Anomalies and Weak Distributed Patterns in Networks ● Peer-to-Peer Networks: File Sharing to Collaborative Computing 	<p>Term effective through 31 December 2017</p>
<p>Admela Jukan</p>	<ul style="list-style-type: none"> ● Design and Performance of Ethernet-over-Optical Network Systems ● A Network Management Perspective on Internet-optical Service Convergence ● Theory and Practice of Network Technology Migration to Software Defined Networking 	<p>Term effective through 31 December 2016</p>
<p>Ahmed Kamal</p>	<ul style="list-style-type: none"> ● Multicasting in Cognitive Radio Networks 	<p>Term effective through 31 December 2014</p>
<p>Stamatios Kartalopoulos</p>	<ul style="list-style-type: none"> ● DWDM Technology and Optical Networks for Beginners ● DWDM Optical Networks ● DWDM Technology ● Next-Generation Intelligent Optical Networks ● Mesh Free-Space (or Wireless) Optical Networks ● Introduction to Network Security ● Introduction to Quantum Cryptography ● Neural Networks and Fuzzy Logic 	<p>Term effective through 31 December 2010</p>
<p>Nei Kato</p>	<ul style="list-style-type: none"> ● Ad Hoc & Mesh & Sensor Networks: Recent Trends and Future directions 	<p>Term effective through 31 December 2016</p>

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	<ul style="list-style-type: none"> • D2D: Research Trends and Future Perspective 	
Mohsen Kavehrad	<ul style="list-style-type: none"> • Multi-Input Multi-Output (MIMO); Potential Applications – Myth and Reality • Multi-band, Multi-service, Sensing Metamaterials; Myth & Reality • Optical Wireless Applications - A Solution to Ease the Wireless Airwaves Spectrum Crunch • Optical Wireless: Theory and Applications • Reconfigurable Optical Wireless Applications in Data Centers • Academic / Industrial Engineering Experience 	Term effective through 31 December 2017
Bhumip Khasnabish	<ul style="list-style-type: none"> • New Generation of Networking • Multimedia Services Peering • Evolution of IP Multimedia Subsystem (IMS) • Harmonization of Network/Service Elements • Convergence: Service and Network Viewpoints 	Term effective through 31 December 2010
Marwan Krunz	<ul style="list-style-type: none"> • Dynamic spectrum access and cognitive radio networks • Physical-layer wireless security • Cooperative MIMO communications • Energy management in wireless sensor networks 	Term effective through 31 December 2014
Lutz Lampe	<ul style="list-style-type: none"> • Power Line Communications - Advanced Signal Processing and Communication Theory • Power Line Communications - From Home Networking to Smart Grid • Physical Communications Techniques for Smart Grid 	Term effective through 31 December 2013

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Tho Le-Ngoc	<ul style="list-style-type: none"> ● Advances in Broadband Access Communications ● Multimedia Satellite Communications ● Adaptive Transmission and Dynamic Resource Allocation ● Broadband xDSL Access Communications ● Collaborative & Cognitive Communications 	Term effective through 31 December 2009
Alberto Leon-Garcia	<ul style="list-style-type: none"> ● Carrier-Class Peer-to-Peer Networking ● What is an Application Oriented Network? ● Towards Autonomic Networks 	Term effective through 31 December 2009
Khaled Letaief	<ul style="list-style-type: none"> ● Broadband Wireless Access in Next-generation Wireless Networks ● 3G Mobile Systems ● Access Technologies for B4G Wireless Systems 	Term effective through 31 December 2008
Victor C. Leung	<ul style="list-style-type: none"> ● Service and Network Convergence in Next Generation Networks ● Mobile Agents in Wireless Sensor Networks ● Wireless Networks for Vehicle-Infrastructure Integration ● From WPAN to WBAN: Short Range Packet Communications 	Term effective through 31 December 2012
Tiffany Jing Li	<ul style="list-style-type: none"> ● 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 	Term effective through 31 December 2013

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Bo Li	<ul style="list-style-type: none">• Optical Networks, specifically on WDM Systems• Wireless Networks (Cellular Systems)• Wireless Ad Hoc Networks and Sensor Networks• Multimedia Communications, specifically related to video communications and video multicast• General topics in computer networks and Internet• Peer-to-Peer systems	Term effective through 31 December 2007
Geoffrey Ye Li	<ul style="list-style-type: none">• From OFDM and SC-FDE to EST-based Modulation• Joint Physical and MAC Layer Optimization for Wireless Networks: Centralized• Joint Physical and MAC Layer Optimization for Wireless Networks: Distributed• Signal Processing Issues in Cognitive Radios	Term effective through 31 December 2010
Jin Li	<ul style="list-style-type: none">• Locality aware P2P delivery: the way to scale Internet Video• Towards Glitch Free VoIP and Video Conferencing• Data in the Cloud: Design of Efficient Storage Systems• High Performance Enterprise Computing with Solid State Drive (SSD)	Term effective through 31 December 2012
Ying-Chang Liang	<ul style="list-style-type: none">• Cognitive Radio Networks• Cooperative Wireless Communications	Term effective through 31 December 2014
Wanjiun Liao	<ul style="list-style-type: none">• Green communications and networking• Wireless multimedia networking• Cloud-aware data center networking	Term effective through 31 December 2012

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Ying-Dar Lin	<ul style="list-style-type: none"> ● Research Roadmap Driven by Network Benchmarking Lab: Deep Packet Inspection, Traffic Forensics, Embedded Benchmarking, WLAN/LTE, and Beyond ● Traffic Forensics: Capture, Replay, Classification, Detection, and Analysis ● Benchmarking Smartphones: Methodologies, Tools, and Results ● Open Source Resources for Networking ● Software Defined Networking: Why, Where, When, and How ● Experience Sharing on International Academic Services and Research 	Term effective through 31 December 2017
Jiajia Liu	<ul style="list-style-type: none"> ● Fundamental Performance Analysis in Two-Hop Relay Mobile Ad Hoc Networks ● Cooperative Jamming in Wireless Networks with Eavesdroppers at Arbitrary Locations ● Device-to-Device Communication for Load Balancing and Coverage Extension in LTE-Advanced Networks ● Advanced Ad Hoc and Mesh Networks: From Theoretical to Practical 	Term effective through 31 December 2017
Pascal Lorenz	<ul style="list-style-type: none"> ● NGN (Next Generation Networks) ● QoS and QoE ● Networking Protocols ● Wireless LAN and Broadband Internet ● Service and Network Convergence 	Term effective through 31 December 2014
Maode Ma	<ul style="list-style-type: none"> ● Security Enhancements over the Communication Networks in Smart Grid ● Security Enhancement for M2M in Cyber-Physical Systems ● Enhance Security Functionality for M2M in 6LoWPANs ● Migration of IP Network to the SDN Network ● Bandwidth Efficient Multicast in HetNets 	Term effective through 31 December 2016

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Past Distinguished Lecturers

Last updated 1/12/2018

Manu Malek	<ul style="list-style-type: none"> ● Security and Information Assurance ● WLAN Security 	Term effective through 31 December 2006
Narayan Mandayam	<ul style="list-style-type: none"> ● 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 	Term effective through 31 December 2015
Athanasios Manikas	<ul style="list-style-type: none"> ● Wireless positioning, localisation and tracking using large aperture antenna arrays ● Antenna array manifolds and channel capacity ● Spatiotemporal channel estimation and interference cancellation ● Space-time beamformers with massive mainlobe gain using an antenna array with limited number of antennas ● Massive and spatiotemporal MIMO: comparative studies of “non-parametric” and “parametric” approaches ● Designing and analysing current and future communication systems using Differential Geometry 	Term effective through 31 December 2017
George Mattathil	<p>Network Industry Dynamics: There is lack of appreciation of the tradeoffs between packet/circuit technologies in the industry. This topic can be covered from three perspectives:</p> <ul style="list-style-type: none"> ● Technical (product design) ● Market (product marketing) ● Business strategy 	Term effective through 31 December 2007

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Past Distinguished Lecturers

Last updated 1/12/2018

Madjid Merabti	<ul style="list-style-type: none">● Critical Infrastructure Protection: A 21st Century Challenge● Sharing Human Digital Memories – Practical Challenges● The Challenge of Society in the 21st Century- Being Remote but Always Connected● Wireless Networking a State of the Art● The State of the Art in Network Security Research● Security in Ubiquitous Computing Environments● On Line Games and Security● Networked Appliances and Computer Entertainment	Term effective through 31 December 2012
Urbashi Mitra	<ul style="list-style-type: none">● Biological Communication Systems: Engineered and Natural● Sparse Approximation for Large Scale Wireless Network Learning and Control● Wireless channel Estimation: Opportunities for Exploiting Structure and Sparsity	Term effective through 31 December 2016
Andreas Molisch	<ul style="list-style-type: none">● MIMO propagation channels● Antenna selection in MIMO systems● Ultrawideband impulse radio: from theory to practice● Ultrawideband propagation channels and their impact on system design● Cooperative communications for adh-hoc networks and infrastructure-based systems	Term effective through 31 December 2008
Hussein Mouftah	<ul style="list-style-type: none">● Advances in Photonic Packet Switching Networks● How to Make Optical Networks Survivable	Term effective through 31 December 2006

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Past Distinguished Lecturers

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Zhisheng Niu	<ul style="list-style-type: none"> • 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 	Term effective through 31 December 2015
Dusit Niyato	<ul style="list-style-type: none"> • Economic Analysis and Pricing Models of Internet-of-Things (IoT) • Wireless Powered Communications Networks: Architectures, Protocol Designs, and Standardization 	Term effective through 31 December 2017
Sedat Oelcer	<ul style="list-style-type: none"> • Magnetic Storage Systems: State-of-the-Art and Market Trends • A 50 Year Journey in Tape Storage 	Term effective through 31 December 2007
Constantinos Papadias	<ul style="list-style-type: none"> • Basics of MIMO systems • Multi-user and Cooperative MIMO Systems • Compact Antennas for MIMO Communication 	Term effective through 31 December 2013
Stefan Parkvall	<ul style="list-style-type: none"> • LTE, IMT-Advanced, and beyond • Future radio access - challenges 	Term effective through 31 December 2012
Neeli Prasad	<ul style="list-style-type: none"> • Internet of Things (IoT), Machine to Machine (M2M) and enabling technologies • Secure Frameworks and Architectures • Social Networking • Smart cities and communities 	Term effective through 31 December 2014

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Past Distinguished Lecturers

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Michael Pursley	<ul style="list-style-type: none"> • Energy-Efficient Routing in Mobile Frequency-Hop Ad Hoc Networks • Cross-Layer Protocols for Mobile Spread-Spectrum Ad Hoc Networks 	Term effective through 31 December 2006
Chunming Qiao		Term effective through 31 December 2012
K. K. Ramakrishnan	<ul style="list-style-type: none"> • Networking the Cloud: Enterprise-ready Cloud Computing and Storage Services • Building an end-end nationwide IPTV service • QoS and Traffic Management in Data Networks • LANs, MANs and Access Networks • Congestion Control 	Term effective through 31 December 2013
Pradeep Ray	<ul style="list-style-type: none"> • Cooperative Service Management in Healthcare Sector • Towards ubiquitous healthcare in the world: emerging trends and challenges • eHealth and Telemedicine • ubiquitous Healthcare Infrastructure • mHealth for the Elderly • Ontologies for the Interoperability and Integration of Healthcare Information Systems 	Term effective through 31 December 2015
George (Gee) Rittenhouse	<ul style="list-style-type: none"> • Future of Wireless Networking 	Term effective through 31 December 2008
Keith Ross	<ul style="list-style-type: none"> • Third Party Privacy Invasion: Attacks and Solutions 	Term effective through 31 December 2014

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Past Distinguished Lecturers

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George Rouskas	<ul style="list-style-type: none"> • Power-aware and computationally efficient optical network design • Net SILO: Architectural support for Internet evolution and innovation • A framework for hierarchical traffic grooming in optical networks 	Term effective through 31 December 2011
Sumit Roy	<ul style="list-style-type: none"> • Cognitive Radio - Algorithms & Architectures • Co-existence in a Multi-radio Environment: Principles, Architectures and Implementations • White Space Networks: From TV bands to Government Users 	Term effective through 31 December 2015
Roberto Saracco	<ul style="list-style-type: none"> • Vision of a Future with Ubiquitous Telecommunications, Communications among Objects, Information Appliances • Network Economy and Telecommunications • Evolution of Telecommunications Technologies, Architectures, Services; Leveraging on Existing Telecommunications Infrastructure and Evolving Them in Developing Countries • Entrepreneurship Capacity Building for Developing Countries • Wireless and Wireline Internet: Bringing Internet Services Using Voice Communications 	Term effective through 31 December 2007
Edward (Ted) H. Sargent	<ul style="list-style-type: none"> • Nanotechnology and Stimulated Self-assembly • Self-organized Photonic Structures for Optical Signal Processing • Solution-processed Infrared-emitting Quantum Dots for Optics-electronics Integration 	Term effective through 31 December 2006
Hikmet) Sari	<ul style="list-style-type: none"> • Broadband Wireless Access • Broadband Cable Access 	Term effective through 31 December 2006

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Henning Schulzrinne	<ul style="list-style-type: none"> ● VoIP - Beyond Replicating the Limitations of the Past ● Next-Generation Emergency Calling (NG911) ● The Vision and Reality of Ubiquitous Computing ● Making VoIP and WiFi Play Nice Together 	Term effective through 31 December 2009
Dominic Schupke	<ul style="list-style-type: none"> ● Resilience in Network Virtualization ● Multi-Layer Networking 	Term effective through 31 December 2014
Abdallah Shami	<ul style="list-style-type: none"> ● Achieving High Availability for Multi-Tiered Cloud-Based Applications ● Network Function Virtualization ● Wireless Network Virtualization 	Term effective through 31 December 2017
Xuemin (Sherman) Shen	<ul style="list-style-type: none"> ● Resource management of Wireless Networks ● Medical Body Area Networks 	Term effective through 31 December 2010
Kazem Sohraby	<ul style="list-style-type: none"> ● Emerging Transmission Technologies ● Emerging Switching Technologies 	Term effective through 31 December 2006
Arun K. Somani	<ul style="list-style-type: none"> ● Monitoring the US Power Grid Using Wireless Sensor Networks ● Survivable Path Level Traffic Grooming in WDM Optical Networks ● Capacity-Balanced Efficient Protection and Grooming Optical Architecture ● RDFN - Robust, Dynamic and Fair or (Real-Damn-Fast) Network ● Wavelength-Division-Multiplexing-Based Networks: Issues and Challenges ● Issues in Optical Interconnection of LANs ● End-to-End Packets and Circuits over Fiber ● Fault and Attack Management in Optical Network 	Term effective through 31 December 2012

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Rayadurgam Srikant	<ul style="list-style-type: none">• Network Optimization, Architecture and Algorithms• Distributed Scheduling Algorithms for Wireless Networks• Shadow-Queue Architecture for Adaptive Routing and Scheduling	Term effective through 31 December 2012
James Sterbenz	<ul style="list-style-type: none">• Resilient, survivable, and disruption-tolerant mobile wireless networking• Programmable, adaptive, extensible, and active networks• High-speed networking architecture, technology, and design principles	Term effective through 31 December 2007
Gordon Stüber	<ul style="list-style-type: none">• MIMO Mobile-to-Mobile Channel Modeling• Synchronization for MIMO-OFDM• Cognitive Radio in DTV Bands	Term effective through 31 December 2008
Tatsuya Suda	<ul style="list-style-type: none">• Molecular Communication: New Paradigm for Communication Among Nano-Scale Biological Machines• The Bio-Networking Architecture: A Biologically Inspired Approach to the Design of Computer Networks and Network Applications• New Research Directions in Networks: from Sociology to Biology	Term effective through 31 December 2010
Tarik Taleb	<ul style="list-style-type: none">• Towards 5G: Carrier-Grade Programmable Virtual Mobile Networks• Congestion Management in 5G Mobile Systems• Mobile Networks As A Cloud Service• Mobile Cloud Networking• Network Function Virtualization: From Architecture to Implementation	Term effective through 31 December 2017

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John Thompson	<ul style="list-style-type: none"> ● Green Wireless Communications and Smart Grid Technologies ● Multiple Antenna Communications Systems ● Wireless relay communications systems and distributed multiple antenna technologies 	Term effective through 31 December 2015
Zhi Tian	<ul style="list-style-type: none"> ● Compressive Sensing: Theory, Algorithms and Applications ● Cognitive Radio Communications ● Wideband Spectrum Sensing for Cognitive Radios ● Cooperative and Distributed Sensing for Wireless Sensor Networks 	Term effective through 31 December 2016
Ioannis Tomkos	<ul style="list-style-type: none"> ● Transparent Optical Networks ● Impairment Constraint Routing in Wavelength Routed Networks ● Performance and technology trends in ultra-long-haul optical networks ● Performance and design issues in metropolitan area optical networks 	Term effective through 31 December 2007
Joe Touch	<ul style="list-style-type: none"> ● 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 	Term effective through 31 December 2014
Don Towsley	<ul style="list-style-type: none"> ● Network security ● The Internet as a complex system ● Network modeling, analysis, and control ● P2P applications, overlays, and their interactions with the Internet 	Term effective through 31 December 2007

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Kishor Trivedi	<ul style="list-style-type: none"> ● Survivability Quantification ● Software Aging and Rejuvenation ● High Availability Software System Assurance ● Performability Modelling of Wireless Communication Systems ● Performance and Reliability of Composite Web Services ● Modeling SIP Application Server Reliability ● Stochastic Petri Nets ● Reliability and Availability Modeling using the SHARPE Software Package 	Term effective through 31 December 2012
Mehmet Ulema	<ul style="list-style-type: none"> ● Management of next generation wireless networks ● Management of wireless ad-hoc and sensor networks ● Wireless Sensor Networks: Applications, Architectures, Protocols and Management ● Network Management: An overview 	Term effective through 31 December 2008
Umit Uyar		Term effective through 31 December 2013
Nitin Vaidya	<ul style="list-style-type: none"> ● Wireless Mesh Networks ● Protocols for Multi-Channel Wireless Networks ● Utilizing Directional Antennas in Multi-Hop Wireless Networks 	Term effective through 31 December 2007
Mihaela van der Schaar	<ul style="list-style-type: none"> ● Design Principles for Social Networks ● Shannon Revisited: New Separation Principles for Wireless Multimedia ● New Classes of Multi-user Communication Games ● Mechanism Design for Engineers: The Theory of Intervention Games with Application to Wireless Networks ● Network economics 	Term effective through 31 December 2012
Rath Vannithamby	<ul style="list-style-type: none"> ● 5G Evolution and Candidate Technologies ● M2M Communications for Internet of Things 	Term effective through 31 December 2017

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A.J. Han Vinck	<ul style="list-style-type: none"> • Information Theory and Coding Techniques • Applications to Random Access; Memory Systems 	Term effective through 31 December 2009
Jiangzhou Wang	<ul style="list-style-type: none"> • In-building distributed antenna systems for broadband wireless communications • Device to device communications in cellular networks • Small cells and heterogeneous networks • Massive MIMO 	Term effective through 31 December 2014
Chonggang Wang	<ul style="list-style-type: none"> • Internet of Things Architecture, Protocols, and Standards • Service Platform for Machine-to-Machine Communications • Content Management in Information-Centric Networks 	Term effective through 31 December 2016
Moe Win	<ul style="list-style-type: none"> • Fundamentals of Ultrawide Bandwidth (UWB) Systems • Recent Advances in Ultrawide Bandwidth (UWB) Communications Networks 	Term effective through 31 December 2009
Tilman Wolf	<ul style="list-style-type: none"> • Economic Principles for Future Internet Architecture • Attacks and Hardware Defenses for Network Infrastructure • Attack Containment in Off-by-Default Networks • Runtime Management of Multicore Network Processors 	Term effective through 31 December 2017
Chengshan Xiao	<ul style="list-style-type: none"> • Globally Optimal Linear Precoders for Finite Alphabet Signals over Complex Vector Gaussian Channels • Underwater Acoustic Communications: Problems, Challenges and Undersea Experiment Results • Cooperative Multi-user Communications under Finite Alphabet Constraints: Theory and Practice • Wireless Fading Channel Modeling and Simulations 	Term effective through 31 December 2012

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Larry G. Xue	<ul style="list-style-type: none">• Coverage and Connectivity in Wireless Sensor Networks• Cross-layer Optimization for Wireless Mesh Networks• Multiconstrained QoS Routing and Multipath Routing• Robust Localization in Wireless Sensor Networks• Social Networks	Term effective through 31 December 2011
Liuqing Yang	<ul style="list-style-type: none">• Underwater Communications and Networking• Resource Optimization in Wireless Communications	Term effective through 31 December 2017
Wei Yu	<ul style="list-style-type: none">• Cloud Radio-Access Networks• Interference Mitigation with Cooperative Relay• Massive MIMO vs. Network MIMO• Interference Alignment for Cellular Networks	Term effective through 31 December 2016
Junshan Zhang	<ul style="list-style-type: none">• Fundamentals of Distributed Opportunistic Scheduling• Networked Communication and Computation for Wind Generation Forecast• Network Interdependence in Cyber-physical Systems	Term effective through 31 December 2014
Qian Zhang	<ul style="list-style-type: none">• Advances in Cognitive Radio Networks• Dynamic Spectrum Access for Efficient Spectrum Management• Cooperative Wireless Networks• Cross-Layer Design for Wireless Mesh Networks• Wireless Sensor Networks and Applications	Term effective through 31 December 2011

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Xi Zhang	<ul style="list-style-type: none"> ● 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 	Term effective through 31 December 2013
Wei Zhang	<ul style="list-style-type: none"> ● Interference Coordination in 5G Cellular Networks ● Spectrum Sharing in Ultra Dense Networks ● Signal Transmission Techniques for Massive MIMO ● Energy Harvesting Communications and Networks 	Term effective through 31 December 2017
Zhensheng Zhang	<ul style="list-style-type: none"> ● 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) 	Term effective through 31 December 2013
Weihua Zhuang	<ul style="list-style-type: none"> ● Resource Allocation for Cellular/WLAN Integrated Networks ● QoS Routing in Mobile Ad Hoc Networks ● Distributed Medium Access Control for QoS Support in Wireless Networks ● Routing and Medium Access Control for Delay Tolerant Traffic in Mobile Ad Hoc Networks ● Hybrid Mobile User Location and Non-Line-of-Sight Error Mitigation 	Term effective through 31 December 2011