

# IEEE ISCC 2012

Program at a glance

## Sunday, July 1, 2012

	Room 1: <b>PEDISWESA Workshop</b>	Room 2: <b>MoCS Workshop</b>
8:30 - 16:30	Registration	
9:00 - 10:30	Session 1: <b>QoS, QoE</b>	Session 1: <b>Cloud Management</b>
10:30 - 11:00	Coffee Break	
11:00 - 12:30	Session 2: <b>Security</b>	Session 2: <b>Security, testing, and integration in cloud computing</b>
12:30 - 14:00	LUNCH Break	
14:00 - 15:30	Session 3: <b>Models</b>	Session 3: <b>A cloud computing framework</b>
15:30 - 16:00	Coffee Break	
16:00 - 17:30	Session 4: <b>MAC Layer</b>	<b>Panel Session</b>

## Monday, July 2, 2012

8:00 - 18:30	Registration			
9:15 - 9:30	(Room 1) <b>OPENING SESSION</b>			
9:30 - 10:30	(Room 1) <b>PLENARY SESSION</b> Keynote Speaker: <b>Prof. Ian F. Akyildiz</b>			
10:30 - 11:00	Coffee Break			
	Room 1	Room 2	Room 3	Room 4
11:00 - 12:30	Session 1: <b>Wireless and Mobile Communications I</b>	Session 2: <b>Wireless Networking I</b>	Session 3: <b>Cloud Computing</b>	Session 4: <b>Routing I</b>
12:30 - 14:00	Lunch Break			
14:00 - 15:00	(Room 1) <b>PLENARY SESSION</b> Keynote Speaker: <b>Latif Ladid</b>			
15:00 - 16:30	Session 5: <b>Wireless and Mobile Communications II</b>	Session 6: <b>Wireless Networking II</b>	Session 7: <b>Optical Networking I</b>	Session 8: <b>Routing II</b>
16:30 - 17:00	Coffee Break			
17:00 - 18:30	Session 9: <b>Wireless and Mobile Communications III</b>	Session 10: <b>Bio-Inspired Computation and Game Theoretic Applications</b>	Session 11: <b>Optical Networking II</b>	Session 12: <b>Internet Architectures, Protocols and Services I</b>
19:00 - 22:00	<b>ISCC 2012 Welcome Reception</b>			

## Tuesday, July 3, 2012

8:30 – 18:00	Registration			
9:00 – 10:00	(Room 1) <b>PLENARY SESSION</b> Keynote Speakers: <b>Ahmed N. TANTAWY</b>			
10:00– 10:30	Presentation of <b>IEEE ISCC 2013</b>			
10:30 – 11:00	Coffee Break			
	Room 1	Room 2	Room 3	Room 4
11:00 – 12:30	Session 13: <b>Wireless Sensor Networks I</b>	Session 14: <b>Network Design, Optimization and Management</b>	Session 15: <b>Internet Services and Applications</b>	Session 16: <b>Security and Privacy Issues</b>
12:30 – 14:00	Lunch Break			
14:00 – 15:00	(Room 1) <b>PLENARY SESSION</b> Keynote Speakers: <b>Tayfun ÇATALTEPE</b>			
15:00 – 16:30	Session 17: <b>Wireless Sensor Networks II</b>	Session 18: <b>Vehicular and Ad-Hoc Networks</b>	Session 19: <b>Green Networking and Communications</b>	
16:30 – 17:00	Coffee Break			
17:00 – 18:30	Session 20: <b>Wireless Sensor Networks III</b>	Session 21: <b>Peer-to-Peer Computing</b>	Session 22: <b>Video Applications</b>	Session 23: <b>Network Reliability and Security</b>
19:30 – 23:30	<b>Conference Banquet</b>			

## Wednesday, July 4, 2012

9:00 – 16:00	Registration			
9:30 – 10:30	(Room 1) <b>PLENARY SESSION</b> Keynote Speaker: <b>Shervin SHIRMOHAMMADI</b>			
	Room 1	Room 2	Room 3	Room 4
10:30 – 11:00	Coffee Break			
11:00 – 12:30	Session 24: <b>Wireless Sensor Networks IV</b>	Session 25: <b>Modeling and Performance Evaluation I</b>	Session 26: <b>Applications and measurements I</b>	Session 27: <b>Cognitive Radio Networks I</b>
12:30 – 14:00	Lunch Break			
14:00– 15:30	Session 28: <b>Internet Architectures, Protocols and Services</b>	Session 29: <b>Modeling and Performance Evaluation II</b>	Session 30: <b>Applications and measurements II</b>	Session 31: <b>Cognitive Radio Networks II</b>
15:30– 16:00	(Room 1) Closing Plenary and Awards (Moderator: <b>Sema Oktug</b> )			

# Detailed Program

**Sunday, July 1, 2012**

Fourth IEEE International Workshop on Performance Evaluation of Communications in Distributed Systems and Web based Service Architectures (PEDISWESA'12)

**Sunday, July 1, 9:00-10:30, Room 1**

## **Session 1 QoS, QoE**

*QoS-HAN: QoS Provisioning in Home Automated Networks over IEEE 802.11n*

Indira Paudel; Fatma Outay; Badii Jouaber

*A New 0-1 Linear Program for QoS and Transactional-aware Web Service Composition*

Virginie Gabrel; Maude Manouvrier; Imen Megdiche; Cécile Murat

*QoM: A New Quality of Experience Framework for Multimedia Services*

Khalil Laghari; Noel Crespi; Hang Nguyen; Tung Pham

## **Session 2 Security**

*Intrusion Detection Framework of Cluster-based Wireless Sensor Network*

Hichem Sedjelmaci; Sidi-Mohammed Senouci; Mohamed Feham

*An Efficient Certificate Revocation Validation Scheme with k-Means Clustering for Vehicular Ad hoc Networks*

Azzedine Boukerche; Yonglin Ren

*LBTool: A Stochastic Toolkit for Leave-Based Key Updates*

Ender Yüksel; Hanne Riis Nielson; Flemming Nielson; Bo Friis Nielsen

## **Session 3 Models**

*Network Availability Modeling of VMIMO link in Multi-hop Wireless Network*

Kamel Barkaoui; Mohamed Escheikh

*Classification of HTTP traffic based on C5.0 Machine Learning Algorithm*

Tomasz Bujlow; M. Tahir Riaz; Jens M. Pedersen

*A clustering method for wireless sensors networks*

Said Fouchal; Quentin Monnet; Djamel Mansouri; Lynda Mokdad; Malika Ioualalen

## **Session 4 MAC Layer**

*An Efficient Multi Hop MAC Protocol for WSN*

Kudireti Abdurusul; Thibault Bernard; Hacene Fouchal

*Half Cycling Dynamic Bandwidth Allocation with Prediction on EPON*

Özgür Can Turna; M. Ali Aydin; A. Halim Zaim; Tulin Atmaca1.

## The Second Workshop on Management of Cloud Systems (MoCS 2012)

- **Workshop opening**

- **Session 1: Cloud Management**

*Resource Allocation in the Network Operator's Cloud: A Virtualization Approach*

João Soares (Portugal Telecom Inovação, Portugal); Romeu Monteiro (Universidade de Aveiro, Portugal); Susana Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal); Jorge Carapinha (PT Inovação S.A. Telecom Group, Portugal); Márcio Melo (Portugal Telecom Inovação, Portugal)

*Minimizing the Provisioning Delay in the Cloud Network: Benefits, Overheads and Challenges*

Burak Kantarci (University of Ottawa, Canada); Hussein T Mouftah (University of Ottawa, Canada)

- **Session 2: Security, testing, and integration in cloud computing**

*Database Security Management for Healthcare SaaS in the Amazon AWS Cloud*

Fabio Bracci (University of Bologna, Italy); Antonio Corradi (University of Bologna, Italy); Luca Foschini (University of Bologna, Italy)

*How a Structured Testbed Enables the Rapid Development and Deployment of Cloud Services: the Vision Cloud use case*

Massimo Villari (University of Messina, Italy); Francesco Longo (Università di Messina, Italy); Maurizio Paone (University of Messina, Italy); Francesco Tusa (Università di Messina, Italy); Michael Jaeger (Siemens AG, Germany)

*Integration of CLEVER Clouds with Third Party Software Systems Through a REST Web Service Interface*

Antonio Celesti (University of Messina, Italy); Francesco Tusa (Università di Messina, Italy); Massimo Villari (University of Messina, Italy); Antonio Puliafito (University of Messina, Italy)

- **Session 3: A cloud computing framework**

*Maestro: A cloud computing framework with automated locking*

Murat Demirbas (University at Buffalo, SUNY, USA); Serafettin Tasci (SUNY Buffalo, USA); Sandeep Kulkarni (Michigan State University, USA)

- **Panel session**

- **MoCS concluding remarks**

**Monday, July 2, 2012**

**9:15-9:30, Room 1**

**OPENING SESSION**

Dr. Sema Oktug, Dr. Mehmet Ulema, Dr. Hussein Mouftah (IEEE ISCC 2012 General Co-Chairs)

**9:30-10:30, Room 1**

**PLENARY SESSION**

**“Nano Networks”**

Keynote Speaker: **Prof. Ian F. Akyildiz**

**10:30-11:00**

**Coffee Break**

**11:00-12:30, Room 1**

**Session 1: Wireless and Mobile Communications I**

**Session Chair:** Dr. Melike Erol-Kantarci (University of Ottawa, Canada)

1. Autonomous Intruder Detection System Using Wireless Networked Mobile Robots, Gurkan Tuna (Trakya University, Turkey); Coskun Taşdemir (Yildiz Technical University, Turkey); Kayhan Gulez (Yildiz Technical University, Turkey); Tarik Veli Mumcu (Yildiz Technical University, Turkey); Vehbi Cagri Gungor (Bahcesehir University, Turkey)
2. Performance of Zero-Forcing and Block-diagonalization Methods for Cooperative MIMO Downlink Base Stations in the Presence of Channel Estimation Errors, Souhaila FKI (TELECOM Betagne); Mohamed Siala (High School of Communications of Tunis (SUPCOM), Tunisia); Guillaume Ferré (Equipe Signal&Image UMR CNRS) ; Fatma Abdelkefi (High School of Communications of Tunis (SUPCOM), Tunisia)
3. Mission-Aware Placement of RF-based Power Transmitters in Wireless Sensor Networks, Melike Erol-Kantarci (University of Ottawa, Canada); Hussein T Mouftah (University of Ottawa, Canada)
4. Neural Network Equalization For Frequency Selective Nonlinear MIMO Channels, Oussema Belhadj Belkacem (National Engineering School of Sousse, Canada); Rafik Zayani (Innov'COM Lab, Sup'Com, Tunisia); Mohamed Lassaad Ammari (École de technologie supérieure, Canada); Ridha Bouallegue (National Engineering School of Sousse SUP'COM, 6'Tel Laboratory, Tunisia); Daniel Roviras (Cnam, France)
5. A Cross-Layer Goodput Enhancement Considering CRC Coding and ARQ Dynamics Eser Ustunel (Tubitak / Ueake, Turkey); Ibrahim Hokelek (Tubitak Bilgem, Turkey); Omer Ileri (Tübitak, Turkey)

**11:00-12:30, Room 2**

**Session 2: Wireless Networking I**

**Session Chair:** Dr. Giuseppe Anastasi (University of Pisa, Italy)

1. Synchronous Distributed Wireless Network Emulator for High-Speed Mobility: Implementation and Evaluation, Minoru Koizumi (Yokohama Research Laboratory, Japan)
2. A Proposal of Cell Selection Algorithm for LTE Handover Optimization, Toshihiko Komine (KDDI R&D Labs., Inc., Japan); Toshiaki Yamamoto (KDDI R&D Laboratories, Japan); Satoshi Konishi (KDDI R&D Laboratories Inc., Japan)
3. Mobility-Aware P/I-CSCF: a solution for achieving seamless handover in IMS, Daniel Négru (University of Bordeaux, France); Julien Arnaud (CNRS LaBRI Lab. - University of Bordeaux 1, France)
4. **(S)** Design and Implementation of an OFDM-based Voice Transmission System for Mobile Underwater Vehicles, Seyyed Mahmood Jafari Sadeghi (Shiraz University, Iran); Mostafa Derakhtian (Shiraz University, Iran); Mohammad Ali Masnadi-Shirazi (Shiraz University, Iran)

**11:00-12:30, Room 3**

**Session 3: Cloud Computing**

**Session Chair:** Dr. Susana Sargento (Instituto de Telecomunicações, Univ. de Aveiro, Portugal)

1. Overcoming the Energy versus Delay Trade-off in Cloud Network Reconfiguration, Burak Kantarci (University of Ottawa, Canada); Hussein T Mouftah (University of Ottawa, Canada)
2. Cloud-Vision: Real-Time Face Recognition Using a Mobile-Cloudlet-Cloud Acceleration Architecture, Tolga Soyata (University of Rochester, USA); Rajani Muraleedharan (Syracuse University, USA); Colin Funai (University of Rochester, USA); Minseok Kwon (Rochester Institute of Technology, USA); Wendi Heinzelman (University of Rochester, USA)
3. DDS-Enabled Cloud Management Support for Fast Task Offloading, Antonio Corradi (University of Bologna, Italy); Luca Foschini (University of Bologna, Italy); Javier Povedano-Molina (University of Granada, Spain); Juan M. Lopez-Soler (University of Granada, Spain)
4. Key Update Assistant for Resource-Constrained Networks, Ender Yüksel (Technical University of Denmark, Denmark); Hanne Riis Nielson (Technical University of Denmark, Denmark); Flemming Nielson (Technical University of Denmark, Denmark)

**11:00-12:30, Room 4**

**Session 4: Routing**

**Session Chair:** Dr. Sema Oktug (Istanbul Technical University, Turkey)

1. Enhancing Reliable Mobile Multicasting with RaptorQ FEC, Christos Bouras (University of Patras and RACTI, Greece); Nikolaos Kanakis (University of Patras, Greece); Vasileios Kokkinos (CTI Diophantus and University of Patras, Greece); Andreas Papazois (CTI and University of Patras, Greece)
2. Routing in DS-TE Networks with an Opportunistic Bandwidth Allocation Model, Rafael Reale (Salvador University, Brazil); Walter Neto (Salvador University, Brazil); Joberto Sergio Barbosa Martins, Dr. (Salvador University - UNIFACS - Brazil, Brazil)
3. CastFlow: Clean-Slate Multicast Approach using In-Advance Path Processing in Programmable Networks, Cesar A. C. Marcondes (Federal University of Sao Carlos, Brasil), Tiago P. C. Santos (Federal University of Sao Carlos, Brasil), Arthur P. Godoy (Federal University of Sao Carlos, Brasil), Caio C. Viel (Federal University of Sao Carlos, Brasil), Cesar A. C. Teixeira (Federal University of Sao Carlos, Brasil)
4. FPC: A self-organized greedy routing in scale-free networks, Yonggong Wang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Gaogang Xie (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Mohamed Ali Kaafar (INRIA, France)

**12:30-14:00**

**Lunch Break**

**14:00-15:00, Room 1**

**PLENARY SESSION**

**“The BIG SHIFT to the IPv6 INTERNET”**

Keynote Speaker: **Latif Ladid**

**15:00-16:30, Room 1**

**Session 5: Wireless and Mobile Communications II**

**Session Chair:** Dr. Sema Oktug (Istanbul Technical University, Turkey)

1. Fast Forced Symbol Method For Distributed Space-Time Turbo Codes Using Complex Orthogonal Design, Zeeshan Sattar (King Saud University, Saudi Arabia); Youssef Ould-Cheikh-Mouhamedou (McGill University, Canada); Abdulhameed Alsanie (King Saud University, Saudi Arabia); Hatim Behairy (King Abdulaziz City For Science and Technology, Saudi Arabia)
2. Improved Approximate Decoding based on Position Information Matrix, Minhae Kwon (Ewha Womans University, Korea); Hyunggon Park (Ewha Womans University, Korea); Pascal Frossard (Swiss Federal Institute of Technology - EPFL, Switzerland)
3. Wavelet Transform and Non Local Means based Super Resolution, Muhammad Iqbal (National University of Sciences and Technology, Pakistan); Abdul Ghafoor (National University of Sciences and Technology, Pakistan); Adil Siddiqui (Military College of Signals, National University of Sciences and Technology, Pakistan)
4. A Fast Searching Method for the Construction of QC-LDPC Codes with Large Girth, Francis C.M. Lau (The Hong Kong Polytechnic University, Hong Kong); Tam Wai Man (The Hong Kong Polytechnic University, Hong Kong)
5. **(S)** Accurate BEP of Adaptive Demodulate-and-Forward Relaying over Rayleigh Fading Channels, Wided Hadj Alouane (SYSCOM ENIT, Tunisia); Nouredine Hamdi (ENIT, Tunisia); Soumaya Meherzi (SYSCOM ENIT, Tunisia)

**15:00-16:30, Room 2**

**Session 6: Wireless Networking II**

**Session Chair:** Dr. Muzaffer Kanaan (Erciyes University, Turkey)

1. Time-efficient Algorithms for the Outdegree Limited Bluetooth Scatternet Formation Problem, Ahmed Jedda (University of Ottawa, Canada); Guy-Vincent Jourdan (University of Ottawa, Canada); Hussein T Mouftah (University of Ottawa, Canada)
2. PADP: Prediction Assisted Dynamic Surface Gateway Placement For Mobile Underwater Networks, Jun Liu (University of Connecticut, USA); Xu Han (University of Connecticut, USA); Manal Al-Bzoor (University of Connecticut, USA); Michael Zuba (University of Connecticut, USA); Jun-Hong Cui (University of Connecticut, USA); Reda Ammar (University of Connecticut, USA); Sanguthevar Rajasekaran (University of Connecticut, USA)
3. A Semi and Fully Distributed Handover Algorithm for Heterogeneous Networks using MIIS, Muhammad Qasim Khan (Norwegian University of Science and Technology, Norway); Steinar Hidle Andresen (The Norwegian University of Science and Technology, Norway)
4. Performance Analysis of H.264/AVC, H.264/SVC, and VP8 over IEEE 802.11 Wireless Networks, Yohaán Yoon (Korea Advanced Institute of Science and Technology, Korea); Myungchul Kim (KAIST, Korea); Sooyong Lee (Korea Advanced Institute of Science and Technology, Korea); Ben Lee (Oregon State University, USA); Soon Joo Hyun (Korea Advanced Institute of Science and Technology, USA); Kyunghye Lee (ETRI, Korea)
5. **(S)** QoS-aware elastic cloud brokering for IMS infrastructures, Paolo Bellavista (University of Bologna, Italy); Giuseppe Carella (Technische Universität Berlin, Germany); Luca Foschini (University of Bologna, Italy); Thomas Magedanz (Fraunhofer FOKUS, Germany); Florian Schreiner (Fraunhofer Institut FOKUS, Germany); Konrad Campowsky (Fraunhofer FOKUS, Germany)

**15:00-16:30, Room 3**

**Session 7: Optical Networking I**

**Session Chair:** Dr. Burak Kantarci (University of Ottawa, Canada)

1. Latency Analysis of Ratio-Counter based Dynamic Bandwidth Allocation Algorithm for Passive Optical Networks, Ali Haider (University of North Carolina at Charlotte, USA); M. Yasin Akhtar Raja (University of North Carolina at Charlotte, USA)
2. Expectation-Maximization (EM) Based Channel Estimation and Interpolation in OFDM Systems, Eser Ustunel (Tubitak / Ueake, Turkey)
3. On Static RWA in Translucent Optical Networks, Quazi R Rahman (University of Windsor, Canada); Subir Bandyopadhyay (University of Windsor, Canada); Yash Aneja (University of Windsor, Canada)
4. Greening the Multi-Granular Optical Transport Network Design under the Optical Reach Constraint, Nabil A Naas (University of Ottawa, Canada); Burak Kantarci (University of Ottawa, Canada); Hussein T Mouftah (University of Ottawa, Canada)
5. **(S)** A Novel Approach Towards Modeling TDM-Pumped Fiber Raman Amplifiers, Vineetha Kalavally (Monash University, Malaysia); Ivan Rukhlenko (Post Doctoral Fellow, Australia); Malin Premaratne (Monash University, Australia)

**15:00-16:30, Room 4**

**Session 8: Routing II**

**Session Chair:** Dr. Kaan Bür (Lund University, Sweden)

1. A New Weighted Shortest Path Tree for Convergecast Traffic Routing in WSN, Walid Bechkit (Compiegne University of Technology (UTC), France); Yacine Challal (Compiegne University of Technology, Heudiasyc lab., France); Abdelmadjid Bouabdallah (Universite de Technologie - Compiegne, France); Mouloud Koudil (Ecole Nationale Supérieure d'Informatique, Algeria); Brahim Souici (Ecole nationale Supérieure d'Informatique, Algeria); Karima Benatchba (Ecole nationale Supérieure d'Informatiqu, Algeria)
2. Virtual Distance: A Generalized Metric for Overlay Tree Construction, Suat Mercan (Zirve University, Turkey); Murat Yuksel (University of Nevada - Reno, USA)
3. **(S)** A Model for Contact Volume Prediction in DTNs, João Batista Pinto, Nt. (Ministerio Publico do Estado de Rondonia, Brazil); Edson Nascimento (Federal University of Amazonas, Brazil); Edjair S. Mota (Federal University of Amazonas, Brazil); Eduardo Cerqueira (Federal University of Para, Brazil); Polianny Almeida (Federal University of Amazonas, Brazil); Robson Rojas (Federal University of Amazonas, Brazil)

**16:30-17:00**

**Coffee Break**

**17:00-18:30, Room 1**

**Session 9: Wireless and Mobile Communications III**

**Session Chair:** Dr. Sema Oktug (Istanbul Technical University, Turkey)

1. Non-stationary Link Inference and Localization in Communication Networks, Ran Gu (Beijing University of Posts and Telecommunications, P.R. China); Yan Qiao (Beijing University of Posts and Telecommunications, P.R. China); Qiu Xue-song (Beijing University of Posts and Telecommunications, P.R. China)
2. A New Approach to Random Interleavers for Traditional IDMA Systems, Mehmet Bilim (Erciyes University, Turkey); Nuri Kapucu (Erciyes University, Turkey); Ibrahim Develi (Erciyes University, Turkey)
3. Radio Resource Sharing in Multi-agency TEDS Networks, Salman A AlQahtani (King Saud University, Saudi Arabia)
4. Inverse Multiplexing Gain Considering Physical Layer Impairments in Mixed Line Rate Networks, Haydar Cukurtepe (Istanbul Technical University, Turkey); Aysegul Yayimli (Istanbul Technical University, Turkey); Biswanath Mukherjee (- University of California Davis, USA)
5. **(S)** Parallel Decoding of LDPC Convolutional Codes Using OpenMP and GPU, Chi Ho Chan (The Hong Kong Polytechnic University, Hong Kong); Francis C.M. Lau (The Hong Kong Polytechnic University, Hong Kong)



**17:00-18:30, Room 2**

**Session 10: Bio-Inspired Computation and Game Theoretic Applications**

**Session Chair:** Dr. Ozgur B. Akan (Koc University, Turkey)

1. Performance Evaluation of Differential Evolution Based Topology Control Method for Autonomous MANET Nodes, Stephen Gundry (The City College of the City University of New York, USA); Janusz Kusyk (The Graduate Center, The City University of New York, USA); Jianmin Zou (The City College of the City University of New York, USA); Cem Safak Sahin (BAE Systems, USA); M. Umit Uyar (City College of The City University of New York, USA)
2. A Novel Algorithm for Technical Articles Classification Based on Gene Selection, Rania M Kilany (University of Connecticut, USA); Reda Ammar (University of Connecticut, USA); Sanguthevar Rajasekaran (University of Connecticut, USA)
3. Input-Evaluation: A New Mechanism for Collecting Data Using Games with a Purpose, Adem Efe Gencer (Bogazici University, Turkey); Tunga Güngör (Boğaziçi University, Turkey); Aslı Gürer (Boğaziçi University, Turkey); A. Sumru Özsoy (Boğaziçi University, Turkey)
4. A modified artificial bee colony algorithm for numerical function optimization, Bilal Babayigit (Erciyes University, Turkey); Resul Ozdemir (Nevsehir University, Turkey)
5. **(S)** A Comparative Analysis of Smith-Waterman Based Partial Alignment, Taner Aruk (Scientific and Technological Research Council of Turkey, Turkey); Duran Ustek (Institute for Experimental Medicine, Turkey); Olcay Kursun (Istanbul University, Turkey)

**17:00-18:30, Room 3**

**Session 11: Optical Networking II**

**Session Chair:** Dr. Kaan Bür (Lund University, Sweden)

1. WDM Optical Packet Ring Performance Insights: Scheduling and Capacity Bogdan Uscumlic (Institute Mihailo Pupin, University of Belgrade, Serbia); Petar S Matavulj (Faculty of Electrical Engineering, University of Belgrade, Serbia); Annie Gravey (Institut Telecom - Telecom Bretagne, France); Philippe Gravey (ENST Bretagne, France); Michel Morvan (ENST Bretagne, France)
2. Impact of FTTH deployment on Live Streaming Delivery Systems Bertrand Mathieu (Orange Labs, France); Yann Levené (Orange Labs, France)
3. Formulations for the problem of routing and wavelength assignment (RWA) with traffic grooming, protection and quality of service on WDM optical networks, Fernanda S H Souza (Federal University of Minas Gerais, Brazil); Daniel L. Guidoni (Federal University of Minas Gerais, Brazil); Geraldo R Mateus (Universidade Federal de Minas Gerais, Brazil)

**17:00-18:30, Room 4**

**Session 12: Internet Architectures, Protocols and Services I**

**Session Chair:** Dr. Luca Foschini (University of Bologna, Italy)

1. A Prediction-Based Active Queue Management for TCP Networks, Mohamed Faten Zhani (University of Waterloo - Canada, Canada); Halima Elbiaze (University of Quebec at Montreal, Canada); Farouk Kamoun (SESAME University, Tunisia)
2. Figures of Merit For The Placement (In)Efficiency Of Interconnected CDNs, Vitor Jesus (Universidade de Aveiro, Portugal); Rui L Aguiar (University of Aveiro, Portugal)
3. Ontology-based Routing of Web Services in Distributed Service Discovery System Containing Domain Specific Nodes, Deniz Cantürk (Middle East Technical University, Turkey); Pinar Senkul (Middle East Technical University, Turkey)
4. An ISP and End-User Cooperative Intradomain Routing Algorithm, Ali Norouzi (University of Surrey, United Kingdom); Michael P. Howarth (University of Surrey, United Kingdom); Ning Wang (University of Surrey, United Kingdom)

Tuesday, July 3, 2012

**9:00-10:00, Room 1**

**PLENARY SESSION**

**“Strategies for a Globalized R&D”**

Keynote Speaker: **Dr. Ahmed N. TANTAWY**

**10:00-10:30, Room 1**

**Presentation of IEEE ISCC 2013**

**10:30-11:00**

**Coffee Break**

**11:00-12:30, Room 1**

**Session 13: Wireless Sensor Networks I**

**Session Chair:** Dr. Nurul I. Sarkar (Auckland University of Technology, New Zealand)

1. A Hybrid and Flexible Discovery Algorithm for Wireless Sensor Networks with Mobile Elements Koteswararao Kondepu (IMT - Institute for Advanced Studies Lucca, Italy); Francesco Restuccia (University of Pisa, Italy); Giuseppe Anastasi (University of Pisa, Italy); Marco Conti (IIT-CNR, Italy)
2. Distributed Relay Node Positioning for Connectivity Restoration in Partitioned Wireless Sensor Networks, Izzet F Senturk (Southern Illinois University Carbondale, USA); Kemal Akkaya (Southern Illinois University Carbondale, USA); Sabri Yilmaz (Southern Illinois University Carbondale, USA)
3. An Optimized Markov Model to Predict Link Quality in Mobile Wireless Sensor Networks, Gustavo de Araújo (Federal University of Santa Catarina, Brazil); Jörg Kaiser (Otto-von-Guericke-Universität Magdeburg, Germany); Leandro Buss Becker (Federal University of Santa Catarina, Brazil)
4. **(S)** Single Attribute Join Queries within Latest Sampling Periods in Sensor Networks, Shangfeng Mo (Renmin University of China, P.R. China); Hong Chen (Renmin University of China, P.R. China); Yinglong Li (Renmin University of China, P.R. China)

**11:00-12:30, Room 2**

**Session 14: Network Design, Optimization and Management**

**Session Chair:** Dr. Bilal Babayigit (Erciyes University, Turkey)

1. Performance Evaluation of Feasible and Holistic CSH-MU Handoff Solution for Seamless Emergency Service Provisioning, Thang Tran (TU Dortmund University, Germany); Maike Kuhnert (TU Dortmund University, Germany); Christian Wietfeld (TU Dortmund University, Germany)
2. PC-TRIO: An Indexed TCAM Architecture for Packet Classifiers, Tania Banerjee-Mishra (University of Florida, USA); Sartaj Sahni (University of Florida, USA); Gunasekaran Seetharaman (US Air Force, USA)
3. Admission Control for QoS Provision in Wireless Mesh Networks, Eduardo Mineiro (Federal Fluminense University, Brazil); Debora Muchaluat-Saade (Universidade Federal Fluminense, Brazil)
4. Protection from Unresponsive Flows with Geometric CHOKe, Addisu Eshete (Norwegian University of Science and Technology, Norway); Yuming Jiang (Norwegian University of Science and Technology (NTNU), Norway)
5. **(S)**  $\alpha\Omega$  Highway Interconnection Network Architecture for High Performance Computing, Plamenka Borovska (Technical University of Sofia, Bulgaria); Dragi Kimovski (Technical University of Sofia, Bulgaria)

**11:00-12:30, Room 3**

**Session 15: Internet Services and Applications**

**Session Chair:** Dr. Pinar Senkul (Middle East Technical University, Turkey)

1. Split Protocol Client/Server Architecture, Bharat Rawal (Loyola University Maryland, USA); Ramesh Karne (Towson University, USA); Alexander L Wijesinha (Towson University, USA)
2. Investment optimization methodology applied to investments on non-technical losses reduction actions, Sergio Ribeiro (Choice Technologies, Brazil); Thiago Cazes (Choice Technologies, Brazil); Rui Mano (Choice Technologies, Brazil); Denis Maia (Choice Technologies, Brazil)
3. Learning Interactions Among Objects, Tools and Machines for Planning, Mustafa Ersen (Istanbul Technical University, Turkey); Sanem Sariel Talay (Istanbul Technical University, Turkey)
4. **(S)** Automatic QoS Evaluation Method for Web Services, Emra Askaroglu (Middle East Technical University, Turkey); Pinar Senkul (Middle East Technical University, Turkey)

**11:00-12:30, Room 4**

**Session 16: Security and Privacy Issues**

**Session Chair:** Dr. M. Umit Uyar (City College of the City University of New York, USA)

1. Analyzing Application Private Information Leaks With Privacy Petri Net, Lejun Fan (Institute of Computing Technology, P.R. China); Yuanzhuo Wang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Xueqi Cheng (Software Lab, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, P.R. China); Jinming Li (Institute of Computing Technology, Chinese Academy of Science, P.R. China)
2. Camera Selection without Location Information: A Topological Approach, Marzieh Varposhti (Amirkabir University of Technology, Iran); Mehdi Dehghan (Amirkabir University of Technology, Iran); Reza Safabakhsh (Amirkabir University of Technology, Iran)
3. Public Watermarking Scheme for 3D Laser Scanned Archeological Models, Osama Hosam (The City for Scientific Research and Technology Applications, Egypt); Walaa Sheta (Informatic Research Institute, MuCSAT, Egypt); Bayumy Youssef (The city for Scientific Research and Technology Applications, Egypt); Mohammed Abdou (The City for Scientific Research and Technology Applications, Egypt)
4. **(S)** Managing secure authentication for standard mobile medical networks, Alexandru Egner (Politehnica University of Bucharest, Romania); Florica Moldoveanu (Politechnic University of Bucharest, Romania)

**12:30-14:00**

**Lunch Break**

**14:00-15:00, Room 1**

**PLENARY SESSION**

**“Internet of Things”**

Keynote Speaker: Dr. **Tayfun Cataltepe**

**15:00-16:30, Room 1**

**Session 17: Wireless Sensor Networks II**

**Session Chair:** Dr. Huseyin Birkan Yilmaz (Bogazici University, Turkey)

1. A Coverage-Based Drop-Policy in Wireless Sensor Network with Disruptive Connections, Daniel Frazao Luiz (Federal University of Amazonas, Brazil); Carlos Maurício Figueiredo (FUCAPI - Research and Technological Innovation Center, Brazil); Eduardo Freire Nakamura (FUCAPI - Research and Technological Innovation Center, Brazil)
2. Guaranteed-Delivery in Arbitrary Dimensional Wireless Sensor Networks by means of Recursive Virtual Coordinates, Stefano Chessa (University of Pisa, Italy); Soledad Escolar (University Carlos III of Madrid, Spain); Susanna Pelagatti (University of Pisa, Italy); Paolo Baronti (CNR, Italy); Jesus Carretero (Universidad Carlos III de Madrid, Spain)
3. A New Adaptive MAC Protocol with QoS support for Heterogeneous Wireless Sensor Networks, Marion Souil (University of Technology of Compiègne, France); Tifenn Rault (University of Technology of Compiègne, France); Abdelmadjid Bouabdallah (Universite de Technologie - Compiègne, France)
4. Services Collaboration in Wireless Sensor and Actuator Networks: Orchestration versus Choreography, Sylvain Cherrier (Université Paris-Est, France); Yacine Ghamri-Doudane (ENSIIE & Université Paris-Est (LIGM Lab), France); Stephane Lohier (University of Paris-Est, France); Gilles Roussel (Université Paris-Est, France)
5. **(S)** Slotted Contention-Based Energy-Efficient MAC Protocols in Delay-Sensitive Wireless Sensor Networks, Messaoud Doudou (CERIST Research Center, Algeria); Djamel Djenouri (CERIST research centre, Algiers, Algeria); Nadjib Badache (University of Sciences and Technology Houari Boumediane (USTHB), Algeria); Madjid Bouabdellah (Lab. Heudiasyc, Algeria)

**15:00-16:30, Room 2**

**Session 18: Vehicular and Ad-Hoc Networks**

**Session Chair:** Dr. Muzaffer Kanaan (Erciyes University, Turkey)

1. Optimal Roadside Units Placement in Urban Areas for Vehicular Networks Baber Aslam (University of Central Florida, USA); Faisal Muhammad Amjad (University of Central Florida, USA); Cliff Zou (University of Central Florida, USA)
2. Impact of Randomness on Information Diffusion in Mobile Ad-Hoc Networks, Dimitri Perrin (Dublin City University, Ireland); Hiroyuki Ohsaki (Osaka University, Japan)
3. LIAITHON: A location-aware multipath video streaming scheme for urban vehicular networks, Renfei Wang (University of Ottawa, Canada); Cristiano Gato Rezende (University of Ottawa, Canada); Heitor S Ramos (Universidade Federal de Minas Gerais, Brazil); Richard W. Pazzi (University of Ottawa, Canada); Azzedine Boukerche (University of Ottawa, Canada); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)
4. VCARP: Vehicular Ad-hoc Networks Context-Aware Routing Protocol, Rodrigo Soares (Federal University of Minas Gerais, Brazil); Eduardo Freire Nakamura (FUCAPI - Research and Technological Innovation Center, Brazil); Carlos Maurício Figueiredo (FUCAPI - Research and Technological Innovation Center, Brazil)
5. Evaluation of LTE Downlink Scheduling Strategies in Vehicle-to-Infrastructure Communications for Traffic Safety Applications, Maria Kihl (Lund University, Sweden); Kaan Bür (Lund University, Sweden); Pradyumna Mahanta (Lund University, Sweden); Erik Coelingh (Volvo Cars, Sweden)

**15:00-16:30, Room 3**

**Session 19: Green Networking and Communications**

**Session Chair:** Dr. Christos Douligeris (University of Piraeus, Greece)

1. Understanding The Basic Principles Implied in Green Traffic Routing, Yunlong Song (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Min Liu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)
2. Honeyguide: A VM Migration-aware Network Topology for Saving Energy Consumption in Data Center Networks, Hiroki Shirayanagi (Keio University, Japan); Hiroshi Yamada (Keio University, Japan); Kenji Kono (Keio University, Japan)
3. Adaptive Control and Performance Evaluation of Burst Transmission in Energy Efficient GPON, Steven S. W. Lee (National Chung Cheng University, Taiwan); Alice Chen (ITRI, Taiwan)
4. **(S)** EBRAR: Energy-Balanced Rate Allocation and Routing Protocol for Body Area Networks, Nedal Ababneh (TELECOM Paris, France); Nick Francis Timmons (Letterkenny Institute of Technology, Ireland); Jim Morrison (WiSAR Lab - Letterkenny Institute of Technology, Ireland)

**16:30-17:00**

**Coffee Break**

**17:00-18:30, Room 1**

**Session 20: Wireless Sensor Networks III**

**Session Chair:** Dr. Andreas Papazois (CTI and University of Patras, Greece)

1. A topology inference algorithm for wireless sensor networks, Theofanis Kontos (University of Athens, Greece); George S. Alyfantis (University of Athens, Greece); Yiannis Angelopoulos (National and Kapodistrian University of Athens, Greece); Stathes Hadjiefthymiades (University of Athens, Greece)
2. An Adaptive Data Gathering Strategy for Target Tracking in Cluster-based Wireless Sensor Networks, Juan Feng (Karlsruhe Institute of Technology, Germany); Zhonglei Wang (Karlsruhe Institute of Technology, Germany); Jörg Henkel (Universität karlsruhe (TH), Germany)
3. A Semantic Solution for Saving Energy in Wireless Sensor Networks, Kalil Bispo (Universidade Federal de Pernambuco, Brazil); Nelson Souto Rosa (Federal University of Pernambuco, Brazil); Paulo Cunha (Federal University of Pernambuco, Brazil)
4. Event Detection Framework For Wireless Sensor Networks Considering Data Anomaly, Letícia de Sousa (Federal University of Minas Gerais, Brazil); Alejandro C Frery (Universidade Federal de Alagoas, Brazil); Eduardo Freire Nakamura (FUCAPI - Research and Technological Innovation Center, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)
5. **(S)** FOMA: Flexible Overlay Multi-path Data Aggregation in Wireless Sensor Networks, Majid Ashouri (Sharif University of Technology, Iran); Hamed Yousefi (Sharif University of Technology, Iran); Ali Mohammad Afshin Hemmatyar (Sharif University of Technology, Iran); Ali Movaghar (Sharif University of Technology, Iran)

**17:00-18:30, Room 2**

**Session 21: Peer-to-Peer Computing**

**Session Chair:** Dr. Huseyin Birkan Yilmaz (Bogazici University, Turkey)

1. Predicting Peer Interactions for Opportunistic Information Dissemination Protocols, Marco Marchini (University of Ferrara, Italy); Mauro Tortonesi (University of Ferrara, Italy); Giacomo Benincasa (Florida Institute for Human & Machine Cognition, USA); Niranjan Suri (Florida Institute for Human & Machine Cognition, USA); Cesare Stefanelli (University of Ferrara, Italy)
2. Exploring Playback Continuity and Delay Trade-off in Peer-to-Peer Streaming, Samaneh Heidari (University of Tehran, Iran); Nazanin Dehghani (University of Tehran, Iran); Mohammad Sadegh Talebi (IPM, Iran); Ahmad Khonsari (University of Tehran, Iran)
3. Energy-Efficient P2P File Sharing for Residential BitTorrent Users, Ilaria Giannetti (University of Pisa, Italy); Giuseppe Anastasi (University of Pisa, Italy); Marco Conti (IIT-CNR, Italy)
4. **(S)** socP2P: P2P Content Discovery Enhancement by considering Social Networks Characteristics, Sraddha Adhikari (Telecom SudParis, France); Reza Farahbakhsh (Institut Télécom, Telecom Sud-Paris & Paris VI, France); Mehdi Mani (Institut TELECOM, Telecom SudParis, France); Noel Crespi (Institut Télécom, Télécom SudParis, France); Angel Cuevas (Institut Telecom, Telecom SudParis, France); Teerapat Sanguankotchakorn (Asian Institute of Technology, Thailand)
5. **(S)** Evaluating IPv6 in Peer-to-Peer Gigabit Ethernet for UDP using Modern Operating Systems, Burjiz Soorty (Auckland University of Technology, New Zealand); Nurul I Sarkar (Auckland University of Technology, New Zealand)

**17:00-18:30, Room 3**

**Session 22: Video Applications**

**Session Chair:** Dr. Sanem Sariel Talay (Istanbul Technical University, Turkey)

1. Using Bittorrent and SVC for Efficient Video Sharing and Streaming, Abdelhalim Amer (Tokyo Institute of Technology, Japan); Toufik Ahmed (University of Bordeaux-1 / CNRS-LaBRI, France); Walid-Khaled Hidouci (Ecole Nationale Supérieure D'Informatique, Algeria); Satoshi Matsuoka (Tokyo Institute of Technology, Japan)
2. Home-Box-assisted Content Delivery Network for Internet Video-on-Demand Services, Soraya Ait Chellouche (University of Bordeaux, France); Daniel Négru (University of Bordeaux, France); Yiping Chen (University of Bordeaux, France); Mamadou Sidibe (University of Versailles, France)
3. On Resource Allocation Strategies in Managed Peer-assisted VOD Streaming Systems, Thibaud Rohmer (University College Dublin, France); Hamid Nafaa (University College Dublin, Ireland); Amir Nakib (University Paris 12, France)
4. Motion Compensation for Video Codec Based on Disparity Estimation, Osama Hosam (Informatics Research Institute IRI, Egypt)
5. **(S)** Visual SLAM Based User Tracking for Outdoor Augmented Reality, Erkan Bostanci (University of Essex, United Kingdom); Adrian F. Clark (University of Essex, United Kingdom)

**17:00-18:30, Room 4**

**Session 23: Security, Reliability and Privacy Issues**

**Session Chair:** Dr. Gunes Karabulut Kurt (Istanbul Technical University, Turkey)

1. Network Loss Tomography Using Link Independence, Yan Qiao (Beijing University of Posts and Telecommunications, P.R. China); Ran Gu (Beijing University of Posts and Telecommunications, P.R. China)
2. WPA2 Security-Bandwidth Trade-off in 802.11n Peer-Peer WLAN for IPv4 and IPv6 Using Windows XP and Windows 7 Operating Systems, Samad Salehi Kolahi (Unitec Institute of Technology, New Zealand); Peng Li (Unitec Institute of Technology, New Zealand); Mustafa Safdari (Unitec New Zealand, New Zealand); Mulugeta Argawe (Unitec New Zealand, New Zealand)
3. Trustworthiness Monitoring and Prediction of Composite Services, Hisain Elshaafi (Waterford Institute of Technology, Ireland); Jimmy McGibney (Waterford Institute of Technology, Ireland); Dmitri D Botvich (Waterford Institute of Technology, Ireland)
4. NAVI: Novel Authentication with Visual Information, Emmanouil Georgakakis (University of Piraeus, Greece); Nikos Komninos (University of Piraeus, Greece); Christos Douligeris (University of Piraeus, Greece)
5. **(S)** Reliability in Wireless Systems for Remote Cardiac Monitoring, Jaemyoun Lee (Hanyang University, Korea); Kyungtae Kang (Hanyang University, Korea)

**19:30-22:30**

**Conference Banquet**

Wednesday, July 4, 2012

**9:30-10:30, Room 1**

**PLENARY SESSION**

**“3D Mobile Multimedia”**

Keynote Speaker: **Prof. Shervin SHIRMOHAMMADI**

**10:30-11:00**

**Coffee Break**

**11:00-12:30, Room 1**

**Session 24: Wireless Sensor Networks IV**

**Session Chair:** Dr. Kazem Sohraby (South Dakota School of Mines and Technology, USA)

1. The Contract Net Based Task Allocation Algorithm for Wireless Sensor Network, Lin Chen (Beijing University of Posts and Telecommunications, P.R. China); Qiu Xue-song (Beijing University of Posts and Telecommunications, P.R. China); Yang Yang (Beijing University of Posts and Telecommunications, P.R. China); Zhipeng Gao (Beijing University of Posts and Telecommunications, P.R. China)
2. A Localized De-synchronization Algorithm for Periodic Data Reporting in IEEE 802.15.4 WSNs, Domenico De Guglielmo (University of Pisa, Italy); Giuseppe Anastasi (University of Pisa, Italy); Marco Conti (IIT-CNR, Italy)
3. A Framework for Cognitive Radio Wireless Sensor Networks, Luiz H. A. Correia (Federal University of Lavras, Brazil); Erasmo Oliveira (Federal University of Minas Gerais, Brazil); Daniel Fernandes Macedo (Federal University of Minas Gerais, Brazil); Pedro Moura (Federal University of Lavras, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil); Jorge Sá Silva (University of Coimbra, Portugal)
4. **(S)** Implementing OMA RESTful Location Services in Wireless Sensor Environments, Md. Asadul Islam (Concordia University, Canada); Fatna Belqasmi (Concordia University, Canada); Roch Glitho (Concordia University, Canada); Ferhat Khendek (Concordia University, Canada)
5. **(S)** An Operating System Runtime Reprogramming Infrastructure for WSN, Rodrigo Steiner (Federal University of Santa Catarina, Brazil); Giovanni Gracioli (Federal University of Santa Catarina, Brazil); Rita Soldi (Federal University of Santa Catarina, Brazil); Antônio Augusto Fröhlich (Federal University of Santa Catarina, Brazil)

**11:00-12:30, Room 2**

**Session 25: Modeling and Performance Evaluation**

**Session Chair:** Dr. Berk Canberk (Istanbul Technical University, Turkey)

1. Accuracy-preserving Measurement Collection for Realistic Wireless Simulations, Mustafa Al-Bado (TU-Berlin / Deutsche Telekom Labs, Germany); Cigdem Sengul (TU-Berlin, Germany); Ruben Merz (Deutsche Telekom Laboratories, Germany)
2. Fast GPU Algorithms for Endmember Extraction from Hyperspectral Images, Reda Ammar (University of Connecticut, USA); Sanguthevar Rajasekaran (University of Connecticut, USA); Mahmoud ElMaghraby (University of Connecticut, USA)
3. Scheduler simulation using iSPD, an iconic-based computer grid simulator, Denison Menezes (UNESP/IBILCE - Universidade Estadual Paulista, Brazil); Aleardo Manacero, Jr. (São Paulo State University - UNESP, Brazil); Renata Spolon Lobato (UNESP – São Paulo State University, Brazil); Diogo Silva (UNESP/IBILCE - Universidade Estadual Paulista, Brazil)
4. **(S)** Performance Evaluation of process-oriented wireless relay deployment in Emergency Scenarios, Andreas Wolff (TU Dortmund University, Germany); Mohamad Sbeiti (Dortmund University of Technology, Germany); Christian Wietfeld (TU Dortmund University, Germany)



**11:00-12:30, Room 3**

**Session 26: Applications and measurements**

**Session Chair:** Dr. Sanem Sariel Talay (Istanbul Technical University, Turkey)

1. CHMJ: An Efficient Join Algorithm for large-scale data processing In Hadoop, Yanrong Zhao (Institute of Computing Technology Chinese Academy of Sciences, P.R. China)
2. Load Balancing with Minimal Flow Remapping for Network Processors, Imad Khazali (Concordia University, Canada); Anjali Agarwal (Concordia University, Canada)
3. Wideband spectrum sensing by compressed measurements, Davood Mardani Najafabadi (Yazd University, Iran); Ali A. Tadaion (Yazd University, Iran); Masoud Reza Aghabozorgi Sahaf (Yazd University, Iran)
4. On Performance Evaluation of Brain Based Learning Processes Using Neural Networks, Hassan Mustafa (University of Al-Baha (KSA), Saudi Arabia)
5. **(S)** A Network Policy Model for Virtualized Systems, Hedi Benzina (Laboratoire Spécification et Vérification, Ecole Normale Supérieure de Cachan, France)

**11:00-12:30, Room 4**

**Session 27: Cognitive Radio Networks I**

**Session Chair:** Dr. Gunes Karabulut Kurt (Istanbul Technical University, Turkey)

1. A Channel Availability Classification for Cognitive Radio Networks using a Monitoring Network, Berk Canberk (Istanbul Technical University, Turkey); Sema Oktug (Istanbul Technical University, Turkey)
2. Zone-based Spectrum Sensing In Cognitive Radio, Bilal Acar (Bogazici University, Turkey); Mehmet Akif Ersoy (Bogazici University, Turkey); Huseyin Birkan Yilmaz (Bogazici University, Turkey); Salim Eryigit (Bogazici University, Turkey); Tuna Tugcu (Bogazici University, Turkey)
3. Convexity Analysis for Cyclostationary Detection in Cognitive Radios, Sana Tariq (National University of Sciences and Technology, Pakistan); Abdul Ghafoor (National University of Sciences and Technology, Pakistan); Salma Zainab Farooq (National University of Sciences and Technology, Pakistan)

**12:30-14:00**

**Lunch Break**

**14:00-15:30, Room 1**

**Session 28: Internet Architectures, Protocols and Services**

**Session Chair:** Dr. Reda Ammar (University of Connecticut, USA)

1. Automatic Classification of Cross-Site Scripting in Web Pages Using Document-based and URL-based Features, Angelo Eduardo Nunan (Federal University of Amazonas, Brazil); Eduardo James Souto (Federal University of Amazonas, Brazil); Eulanda dos Santos (Federal University of Amazonas, Brazil); Eduardo Feitosa (Universidade Federal do Amazonas, Brazil)
2. Resilient Packet Rings with Heterogenous Links, Mete Yilmaz (Cisco Systems, USA); Nirwan Ansari (NJIT, USA)
3. DBA-VM: Dynamic Bandwidth Allocator for Virtual Machines, Ahmed Amamou (University of Pierre & marie Curie, France); Manel Bourguiba (Université Paris Sud, France); Kamel Haddadou (LIP6 University of Paris 6, France); Guy Pujolle (University Pierre et Marie Curie - Paris 6, France)
4. Flow-Based Routing Architecture for Valiant Load-Balanced Networks, Imad Khazali (Concordia University, Canada); Anjali Agarwal (Concordia University, Canada)

**14:00-15:30, Room 2**

**Session 29: Modeling and Performance Evaluation II**

**Session Chair:** Dr. Kaan Bür (Lund University, Sweden)

1. Improving the Accuracy of Boolean Tomography by Exploiting the Difference of Path Congestion Degree, Zhiyong Zhang (University of Electronic Science and Technology of China (UESTC), P.R. China); Gaolei Fei (University of Electronic Science and Technology of China, P.R. China); Fucai Yu (University of Electronic Science and Technology of China, P.R. China); Guangmin Hu (University of Electronic Science and Technology of China, P.R. China)
2. A Framework based on Small World Features to Design HSNs Topologies with QoS, Daniel L. Guidoni (Federal University of Minas Gerais, Brazil); Azzedine Boukerche (University of Ottawa, Canada); Leandro Aparecido Villas (UFMG, Brazil); Fernanda S H Souza (Federal University of Minas Gerais, Brazil); Raquel A. F. Mini (PUC Minas, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)
3. Energy-efficient RF Source Power Control for Opportunistic Distributed Sensing in Wireless Passive Sensor Networks, A. Ozan Bicen (Koc University, Turkey); Ozgur B. Akan (Koc University, Turkey)
4. VCG-based Bandwidth Allocation Scheme for Network Virtualization, Xia Lv (Beijing University of Posts and Telecommunications, P.R. China); Xiong Ao (Beijing University of Posts & Telecommunications (BUPT), P.R. China); Shunli Zhang (Beijing University of Posts and Telecommunication, P.R. China); XueSong Qiu (Beijing University of Posts and Telecommunications, P.R. China)
5. **(S)** A Model-Based Verification framework of Reconfigurable Real-time Embedded Systems, Fatma Krichen (IRIT, University of Toulouse, France); Amal Gassara (ReDCAD, University of Sfax, Tunisia); Bechir Zalila (ReDCAD, University of Sfax, Tunisia); Mohamed Jmaiel (ENIS, Tunisia)

**14:00-15:30, Room 3**

**Session 30: Applications and Measurements II**

**Session Chair:** Dr. M. Umit Uyar (City College of the City University of New York, USA)

1. A Runtime-restricted Strategy for Highly Parallel Scheduling Human Resource in Change Management, Wei Dong (Beijing University of Posts and Telecommunications, P.R. China)
2. A Weighted-Graph Based Approach for Solving the Cold Start Problem in Collaborative Recommender Systems, Nassira Chekkai (MISC Laboratory, Mentouri University, Constantine, Algeria); Salim Chikhi (MISC Laboratory, Mentouri University, Constantine, Algeria); Hamamache Kheddouci (Universite Claude Bernard Lyon 1, France)
3. Novel Mechanism for Bandwidth Reuse in Network Virtualization, Dongdong Chen (Beijing University of Posts and Telecommunications, P.R. China); Zhaowei Qu (Beijing University of Posts and Telecommunications, P.R. China); Shunli Zhang (Beijing University of Posts and Telecommunication, P.R. China); Qiu Xue-song (Beijing University of Posts and Telecommunications, P.R. China)
4. Cooperative Sensing Analysis under Imperfect Reporting Channel, Can Altay (Bogazici University, Turkey); Huseyin Birkan Yilmaz (Bogazici University, Turkey); Tuna Tugcu (Bogazici University, Turkey)
5. **(S)** Network-resource Isolation for Virtualization Nodes, Yasusi Kanada (Hitachi, Ltd., Japan); Kei Shiraishi (Hitachi, Ltd., Japan); Akihiro Nakao (University of Tokyo, Japan)

**14:00-15:30, Room 4**

**Session 31: Cognitive Radio Networks II**

**Session Chair:** Dr. Berk Canberk (Istanbul Technical University, Turkey)

1. Multi-Antenna Spectrum Sensing for Cognitive Radio under Rayleigh Channel, Alphan Salarvan (Istanbul Technical University, Turkey); Gunes Karabulut Kurt (Istanbul Technical University, Turkey)
2. An Improved Energy Detection Scheme for Cognitive Radio Networks in Low SNR Region, Ahmed Kozal (LJMU, United Kingdom); Madjid Merabti (Liverpool John Moores University, United Kingdom); Faycal Bouhafs (Liverpool John Moores University, United Kingdom)
3. Novel Interference Alignment in Multi-Secondary Users Cognitive Radio System, Bassant Abdelhamid (Egypt-Japan University of Science and Technology, Egypt); Maha Elsabrouty (Egypt Japan University for Science and Technology, Egypt); Salwa Elramly (Ain Shams University, Egypt)
4. Trellis-Coded-Modulation-OFDMA for Spectrum Sharing in Cognitive Environment, Nader Mokari (Tarbiat Modares University, Iran); Keivan Navaie (University of Leeds, United Kingdom); Hamid Saeedi (Tarbiat Modarres University, Iran)

**15:30-16:00, Room 1**

**Closing Plenary and Awards**