IEEE ISCC 2010 Final Program

Program at a Glance

Tuesday, June 22, 2010

For the detailed program of each workshop, please refer to the associated website.

	Room Costanza A: MediaWiN	Room Violante A: SISS	Room Costanza B: PEDISWESA	
8:30 - 9:00	Registration			
	Welcome and Opening Remarks			
	Session 1: A/V Streaming over Wireless	Keynote Speech and Open discussion Session chair: Paolo Bellavista Keynote Speaker: Payam Barnaghi	Session 1	
10:30 - 11:00	Coffee Break			
	Session 2: Wireless Technology Enhancements for	Session 1: Smart Environments and Semantic Technologies	Session 2	
	Multimedia Applications	Demo Presentations (Room Violante B)		
12:40 - 14:15	Lunch Break			
	Session 3: Multimedia Applications over Wireless	Session 2: Smart Environments and Supporting Platforms	Session 3	
15:30 - 16:00	Coffee Break			
	Panel The Impact of Multimedia in the Future of Wireless Internet	Session 3: Smart Environment Applications and Use Cases		
		SISS + SOFIA-related Demo Presentations and Open Discusson (Room Violante B)		
	Closing Remarks			
19:00 - 21:00	ISCC Welcome cocktail Riccione City Eye – Palariccione (5th floor)			

Wednesday, June 23, 2010

8:00 - 8:45	Registration
8:45 - 9:00	(Room Polissena B) Opening Session: Antonio Corradi, Mahmoud Daneshmand
9:00 - 10:30	(Room Polissena B) PLENARY SESSION

	Moderator: Mahmoud Daneshmand Keynote Speaker: Keith Cambron, Carlo Alberto Licciardi			
10:30 -11:00	Coffee Break			
	Room Polissena B	Room Violante A	Room Costanza A	Room Costanza B
11:00 - 12:45	Session 1: Wireless and Mobile Communications #1	Session 2: Reliability and QoS #1	Session 3: Security #1	Session 4: Mobile Ad-hoc and Sensor Networks #1
12:45 - 14:15	Lunch			
14:15 - 16:00	Session 5: Wireless and Mobile Communications #2	Session 6: Reliability and QoS #2	Session 7: Security #2	Session 8: Mobile Ad-hoc and Sensor Networks #2
16:00 - 16:30	Coffee Break			
16:30 - 18:00	Session 9: Wireless and Mobile Communications #3	Session 10: Reliability and QoS #3	Session 11: Security #3	Session 12: Mobile Ad-hoc and Sensor Networks #3

Thursday, June 24, 2010

8:30 - 9:00	Registration			
9:00 - 10:30	(Room Polissena B) PLENARY SESSION Moderator: Antonio Corradi Keynote Speaker: Narasimha Reddy, Siamak Khorram			
10:30 -11:00	Coffee Break			
	Room Polissena B	Room Violante A	Room Costanza A	Room Costanza B
11:00 - 12:45	Session 13: Wireless and Mobile Communications #4	Session 14: Reliability and QoS #4	Session 15: Security #4	Session 16: Mobile Ad-hoc and Sensor Networks #4
12:45 - 14:15	Lunch			
14:15 - 16:00	Session 17: Distributed and Mobile Middleware #1	Session 18: Routing and Multicast #1	Session 19: Multimedia and Image Processing	Session 20: Mobile Ad-hoc and Sensor Networks #5
16:00 - 16:30	Coffee Break			
16:30 - 18:00	Session 21: Distributed and Mobile Middleware #2	Session 22: Routing and Multicast #2	Session 23: NGN Infrastructure and Management	Session 24: Handoff and Mobile Communications
18:00 - 19:30				

19:30 - 23:30

Conference Banquet
Ristorante il Mastin Vecchio, via Alighieri 5, Gradara (PU)
Buses for the conference banquet will leave at 19:30 from Viale Catullo, in the back of Palariccione

Friday, June 25, 2010

8:30 - 9:00	Registration			
9:00 - 10:30	(Room Polissena B) PLENARY SESSION Moderator: Jesús Carretero Keynote Speakers: Franco Prampolini, Jose Duato			
10:30 - 11:00	Coffee Break			
	Room Polissena B	Room Violante A	Room Costanza A	Room Costanza B
11:00 - 12:45	Session 25: Management of Distributed Systems and SOA #1	Session 26: Peer-to-Peer Computing #1	Session 27: Internet Services and Applications #1	Session 28: Mobile and Wireless Applications
12:45 - 14:15	Lunch			
14:15 - 16:00	Session 29: Management of Distributed Systems and SOA #2	Session 30: Peer-to-Peer Computing #2	Session 31: Internet Services and Applications #2	Session 32: Access Networks
16:00 - 16:30	Coffee Break			
16:30 - 18:00	Session 33: Network Design, Optimization, and Management	Session 34: Database and Data Mining Applications	Session 35: Modeling and Simulation	
18:00 - 18:30	(Room Polissena B) Closing plenary and awards (Moderator: Antonio Corradi)			

*Note that the papers with their title preceded by (S) are accepted as short papers; they will have reduced time for presentation if compared with full papers (e.g., 20 minutes for full papers presentations, 12 minutes for short papers ones).

Wednesday, June 23, 2010

Session 1: Wireless and Mobile Communications #1

Session Chair: Marco Prandini, University of Bologna

- Physical Rate and Contention Window Based Admission Control (PRCW) for 802.11 WLANs Fedoua DIDI (University of Tlemcen, DZ), Houda Labiod (Enst of Paris, FR), Guy Pujolle (University of Paris 6, FR), Mohamed Feham (University of Tlemcen, DZ)
- Cross Layer Optimization Architecture for Video Streaming in WIMAX Networks
 Alaeddine Abdallah, Djamal-Eddine Meddour (Orange Labs, FR), Toufik Ahmed (University of
 Bordeaux-1, FR), Raouf Boutaba (University of Waterloo, CA)
- A Cooperative Collision Early-Warning System for Vehicles in the Curve Environment Chung-Ming Huang, Shih-Yang Lin (National Cheng Kung University, TW)
- Resource Allocation with Fairness in Cognitive Multi-hop Cellular Networks
 Hongcheng Zhuang, Jietao Zhang (Huawei Technologies, CN), Ali Daneshmand (AT&T, USA)
- An Adaptive Cooperative MAC Mechanism in Multi-hop Wireless Networks Hongzhi Jiao, Frank Li (University of Agder, NO)

Session 2: Reliability and Quality of Service #1

Session Chair: Abdelhamid Eshoul, University of Ottawa

- Policy-Aware Virtual Relay Placement for Inter-Domain Path Diversity Tao Guo, Ning Wang, Rahim Tafazolli, Klaus Moessner (University of Surrey, UK)
- Recursive Loop-Free Alternates for Full Protection Against Transient Link Failures
 Suksant Sae Lor, Redouane Ali, Raul Landa, Miguel Rio (University College London, UK)
- Simulation Study of New TCP Variants
 Denis Collange, Jacopo Chicco, Alberto Blanc (Orange Labs, FR)
- Dynamical Management of Dejitter Buffers Based on Speech Quality
 Raquel do Valle, Leandro Carvalho, Regeane Aguiar, Edjair Mota, Diogenes Freitas (Federal
 University of Amazonas, BR)
- Hybrid Sampling for Estimating Flow Size Distribution and Its Implementation Takayuki Goto, Chikara Sasaki, Teruyuki Hasegawa, Shigehiro Ano (KDDI R&D Laboratories Inc., JP)

Session 3: Security #1

Session Chair: Petros Nicopolitidis, Aristotle University

- Roles and Security in a Publish/Subscribe Network Architecture
 Dmitrij Lagutin, Kari Visala, András Zahemszky (Helsinki Institute for Information Technology, FI),
 Trevor Burbridge (BT Research, UK), Giannis Marias (Athens University of Economics and Business, GR)
- A Secure and Mutual-Profitable DRM Interoperability Scheme Sangho Lee (Pohang University of Science and Technology (POSTECH), KR), Heejin Park (LG Electronics Inc., KR), Jong Kim (POSTECH, KR)

- Enhanced Attack Collection Scheme on High-Interaction Web Honeypots Takeshi Yagi, Naoto Tanimoto, Takeo Hariu, Mitsutaka Itoh (NTT, JP)
- Cryptographic Signatures on the Network Layer an Alternative to the ISP Data Retention Dmitrij Lagutin (Helsinki Institute for Information Technology, FI), Sasu Tarkoma (University of Helsinki, FI)

Session 4: Mobile Ad-hoc and Sensor Networks #1

Session Chair: Hacène Fouchal, Universite de Reims Champagne-Ardenne

- Exploiting a Meeting Channel to Interconnect 802.15.4-compliant Mobile Entities: Discovery and Association Phases
 - Nassima Hadid, Alexandre Guitton, Michel Misson (Clermont Universit'e / LIMOS CNRS, FR)
- LEHP: Localized Energy Hole Profiling in Wireless Sensor Networks
 Piotr Szczytowski, Abdelmajid Khelil, Neeraj Suri (Technical University of Darmstadt, DE)
- Fusing Light and Temperature Data for Fire Detection
 Osman Penha Jr. (Federal University of Amazonas, BR), Eduardo Nakamura (FUCAPI, BR)
- A Novel Approach for Monitoring Wireless Sensor Network Performance by Tracking Node Operational Deviation
 Yagoob J. Y. Al-raisi, Nazar E. Mohamed (Fahad Bin Sultan University, SA)
- (S) Optimal Infostation Deployment for Spatio-temporal Information Dissemination Yongping Xiong, Rui Tian (Chinese Academy of Sciences, CN), Jian Ma (Nokia Research Center, CN), Yan Liu (Peking University, CN), Limin Sun (Chinese Academy of Sciences, CN)
- (S) Joint Power Allocation and Relay Assignment for Max-Min Fairness in Cooperative Networks Hongli Xu, Liusheng Huang, Gang Wang, Wang Liu (University of Science and Technology of China, CN)

Session 5: Wireless and Mobile Communications #2

Session Chair: Claudia Canali, University of Modena and Reggio Emilia

- Performance Analysis of Cooperative Relaying Scheme Applying TAS/SC Levent Karaevli, Ibrahim Altunbas (Istanbul Technical University, TR), Gunes Karabulut (Turkcell, TR)
- Performance Evaluation of an Underwater Acoustic Data Broadcasting System Petros Nicopolitidis, Georgios Papadimitriou, Andreas Pomportsis (Aristotle University, GR)
- RG-SCTP: Using the Relay Gateway Approach for Applying SCTP in Vehicular Networks Chung-Ming Huang, Ming-Sian Lin (National Cheng Kung University, TW)
- An Optimal 1D Vehicular Accident Warning Algorithm for Realistic Scenarios Marco Roccetti, Gustavo Marfia, Alessandro Amoroso (University of Bologna, IT)
- (S) Adaptive MIMO LS Estimation Technique via MSE Criterion over a Markov Channel Model Sayed Hossein Dokhanchi, Abolfazl Falahati (Iran University of Science and Technology, IR)

Session 6: Reliability and Quality of Service #2

Session Chair: Rivalino Matias, Federal University of Uberlandia

- Cause and Countermeasure of Overtermination for PCN-Based Flow Termination Daisuke Satoh, Harutaka Ueno (NTT Advanced Technology, JP)
- Quick End-to-End Available Bandwidth Estimation for QoS of Real-Time Multimedia Communication
 - Takashi Oshiba, Kazuaki Nakajima (NEC Corporation, JP)
- Context-Based Connectivity over Multi-Virtual Wireless Mesh Networks: Analytical Study Ricardo Matos, Susana Sargento (University of Aveiro, PT)
- UANM: a Platform for Experimenting with Available Bandwidth Estimation Tools
 Alessio Botta, Antonio Pescapé, Giuseppe Aceto (University of Napoli Federico II, IT), Maurizio
 D'Arienzo (Second University of Naples, IT)
- (S) A Framework for Distributed Provisioning Availability-Guaranteed Least-Cost Lightpaths in WDM Mesh Networks
 Emad Al-Sukhni, Hussein Mouftah (University of Ottawa, CA)

Session 7: Security #2

Session Chair: Vassilis Poulopoulos, University of Patras

- Relation of PPAtMP and Scalar Product Protocol and Their Applications
 Youwen Zhu, Liusheng Huang, Wei Yang (University of Science and Technology of China, CN)
- QTL: An Efficient Scheduling Policy for 10Gbps Network Intrusion Detection System
 Bo Song, Weibing Yang, Mingyu Chen (Chinese Academy of Sciences, CN), Xiaofang Zhao,
 Jianping Fan (Institute of Computing Technology, Chinese Academy of Sciences, CN)
- Mitigating Collision and Preimage Attacks against the Generalized MDC-2 Mode of Operation Michael Kounavis (Intel Corporation, US), Shay Gueron (University of Haifa, IL)
- AspFuzz: A State-aware Protocol Fuzzer based on Application-layer Protocols Takahisa Kitagawa, Miyuki Hanaoka, Kenji Kono (Keio University, JP)
- (S) Segment Level Authentication: Combating Internet Source Spoofing
 Ming Li, Matti Siekkinen, Sasu Tarkoma, Antti Ylä-Jääski (Helsinki University of Technology, FI),
 Yong Cui (Tsinghua University, China, CN)
- (S) Incremental Hash Tree for Disk Authentication
 Fangyong Hou, Hongjun He, Xiao Nong, Fang Liu, Guangjun Zhong (National University of Defense Technology, CN)

Session 8: Mobile Ad-hoc and Sensor Networks #2

Session Chair: Paulo Carvalho, University of Minho

- QoS-based MAC Protocol for Medical Wireless Sensor Body Area Networks Khaled Ali, Jahangir Sarker, Hussein Mouftah (University of Ottawa, CA)
- Modeling Emergency Events to Evaluate the Performance of Time-critical WSNs Carlos Calafate, Carlos Lino, Juan-Carlos Cano, Pietro Manzoni (Universidad Politécnica de Valencia, ES)
- A Small World Model to Improve Synchronization Algorithms for Wireless Sensor Networks
 Daniel Guidoni, Azzedine Boukerche (Univ. of Ottawa, CA), Horacio Oliveira (Federal University
 of Amazonas, BR), Raquel Mini (PUC Minas, BR), Antonio A.F. Loureiro (Federal University of
 Minas Gerais, BR)

- A Framework for Optimization of Operational Latency in Wireless Networks
 Eun-Sook Sung (Samsung Electronics, KR), Miodrag Potkonjak (University of California at Los
 Angeles, US)
- (S) Diagnosability Evaluation for a System-Level Diagnosis Algorithm for Wireless Sensor Networks
 - Andrea Weber, Alexander Robert Kutzke (Federal University of Parana, BR), Stefano Chessa (University of Pisa, IT)
- (S) Throughput Analysis of IEEE 802.11 Multihop Ad Hoc Wireless Networks under Saturation Condition
 - Xijie Liu, Tarek Saadawi (City University of New York, US)

Session 9: Wireless and Mobile Communications #3

Session Chair: Damianos Gavalas, University of the Aegean

- An Effective Rate Adaptation Scheme for Multihop Wireless Networks
 Basel Alawieh (Alcatel-Lucent, CA), Chadi Assi (Concordia University, CA), Hussein Mouftah
 (University of Ottawa, CA), Hamed M. K. Alazemi (Kuwait University, KW)
- MaxOPP: A Novel Opportunistic Routing for Wireless Mesh Networks Raffaele Bruno, Marco Conti (IIT-CNR, IT), Maddalena Nurchis (IMT, IT)
- A Modified Beacon-Enabled IEEE 802.15.4 MAC Emergency Response Applications
 Anil Mehta (Southern Illinois University Carbondale, US), Ghulam Bhatti, Zafer Sahinoglu
 (Mitsubishi Electric Research Laboratories, US), Ramanarayanan Viswanathan (Southern Illinois
 University Carbondale, US), Jinyun Zhang (MERL, US)
- (S) Cooperative Diversity of Distributed Network Beamforming Under Long-Term Power Constraints
 - Ebrahim Safavi, Babak Hossein Khalaj (Sharif University of Technology, IR)

Session 10: Reliability and Quality of Service #3

Session Chair: Alessandro Amoroso, University di Bologna

- Dynamic Load Balancing of SSH Sessions Using User-Specific Selection Policies Paul Kolano (NASA, US)
- Class of Service with Partial Protection in Multilayered Networks with SRLG Constraints Joylyn Mendonca, Hassan Naser (Lakehead University, CA)
- Dynamic Routing Optimization based on Real Time Adaptive Delay Estimation Saïda Ziane, Abdelhamid Mellouk (University Paris-Est Creteil Val de Marne, FR)
- (S) Improving Traffic Classification and Policing at Application Layer Helder Pereira, Andre Ribeiro, Paulo Carvalho (University of Minho, PT)
- (S) QoS Broker Based Management for Heterogeneous Smart Electricity Networks Agustin Zaballos, Alex Vallejo, Joan Jimenez, Josep Selga (University Ramon Llull, ES)
- (S) COR: an Efficient Class-based Resource Over-pRovisioning Mechanism for Future Networks Evariste Logota (University of Aveiro, PT), Augusto Neto (Federal University of Goiás, BR), Susana Sargento (University of Aveiro, PT)

Session 11: Security #3

Session Chair: Lynda Mokdad, University of Paris 12

- Privacy-Aware Policy Matching
 Slim Trabelsi, Eric Weil, Alessandro Sorniotti, Stuart Short, Michele Bezzi (SAP Labs France, FR)
- APPMA An Anti-Phishing Protocol with Mutual Authentication
 Maryam Saeed, Hadi Shahriar Shahhoseini (Iran University of Science and Technology, IR)
- A Novel Approach for Online Signature Verification Using Fisher Based Probabilistic Neural Network
 - Batouche Mohamed, Souham Meshoul (King Saud University, SA)
- Towards a Practical and Effective Security Testing Methodology Marco Prandini, Marco Ramilli (University of Bologna, IT)
- (S) System-Wide Anatomy and Tuning of a SPECweb SSL Server Xiaozhu Kang, Michael Kounavis, David Durham (Intel Corporation, US)
- (S) A New Relative Entropy Based App-DDoS Detection Method
 Jin Wang, X. Yang, Keping Long (University of Electronic Science and Technology of China, CN)

Session 12: Mobile Ad-hoc and Sensor Networks #3

Session Chair: Orazio Mirabella, University of Catania

- Data Centric Storage in ZigBee Wireless Sensor Networks Michele Albano, Stefano Chessa (University of Pisa, IT)
- Reliability and Energy Efficiency in Multi-hop IEEE 802.15.4/ZigBee Wireless Sensor Networks Giuseppe Anastasi (University of Pisa, IT), Marco Conti (IIT-CNR, IT), Mario Di Francesco (University of Texas at Arlington, US), Vincenzo Neri (University of Pisa, IT)
- Surface Gateway Placement Strategy for Maximizing Underwater Sensor Network Lifetime Saleh Ibrahim, Reda Ammar, Jun-Hong Cui (University of Connecticut, US)
- (S) An Energy Efficient Wireless Sensor Network for Precision Agriculture Herman Sahota, Jing Huang, Ratnesh Kumar, Ahmed Kamal (Iowa State University, US)

Thursday, June 24, 2010

Session 13: Wireless and Mobile Communications #4

Session Chair: Maurizio Casoni, University of Modena and Reggio Emilia

- TCP, XCP and RCP in Wireless Mesh Networks: An Evaluation Study Luis Barreto (Inst. Politécnico de Viana do Castelo, PT), Susana Sargento (Universidade de Aveiro, PT)
- Simulation and Measurements Integration for the Evaluation of Wireless Communication Networks
 - Orazio Mirabella, Michele Brischetto (University of Catania, IT)
- Fairness based Dynamic Multi-user Resource Allocation in Cooperative OFDMA Systems Hamed Banizaman (Yazd University, IR)
- (S) Robust Admission Control for Streaming and Elastic Traffic Services in Cellular Networks
 Elena Bernal-Mor, Vicent Pla, Jorge Martinez-Bauset (Universidad Politecnica de Valencia, ES)

Session 14: Reliability and Quality of Service #4

Session Chair: Stefano Chessa, University of Pisa

- Class Based Availability Considerations in GMPLS Networks
 Adnan Sancak (Istanbul Technical University, TR), Burak Kantarci (University of Ottawa, CA),
 Sema Oktug (Istanbul Technical University, TR)
- Application-layer Bandwidth Allocation Algorithm for Service Differentiation in Hybrid Content Distribution Network
 - Hai Jiang, Haibin Zhai (Chinese Academy of Sciences, CN), Albert K. Wong (Hong Kong University of Science and Technology, HK), Jun Li, Yi Sun, Zhongcheng Li (Institute of Computing Technology, Chinese Academy of Sciences, CN)
- Quality Monitoring of Network Traffic Forecasts using Statistical Process Control Rivalino Matias, Jr., Lucio Araujo, Mirian Araujo (Federal University of Uberlandia, BR)
- Delays in a Series of Queues: Independent versus Identical Service Times Werner Sandmann (Clausthal University of Technology, DE)
- Multiple Decision Feedback Equalizer for Satellite AIS Coherent Detection Marian Jurado Gallardo, Ulrich Sorger (University of Luxemburg, LU)

Session 15: Security #4

Session Chair: Igor Radusinovic, University of Montenegro

- Octopus-IIDS: An Anomaly Based Intelligent Intrusion Detection System
 Paulo Mafra, Vinicius Moll, Joni Da Silva Fraga (Federal University of Santa Catarina, BR), Altair
 Santin (Pontifical Catholic University of Paranà, BR)
- A Key-Agreement Protocol Based on the Stack-Overflow Software Vulnerability Tamer Fatayer, Sherif Khattab, Fatma Omara (Cairo University, EG)
- Thwarting Back-off Rules Violation in Tactical Wireless Ad hoc Networks Soufiene Djahel, Farid Nait-Abdesselam (University of Lille, FR)
- Scalable Rekeying in Dynamic Multi-Groups Gianluca Dini, Francesco Giurlanda (University of Pisa, IT)
- (S) A Secure Group Management Scheme for Mobile Ad hoc Networks Azzedine Boukerche, Yonglin Ren (University of Ottawa, CA)

(S) Playing Defense by Offense: Equilibrium in the DoS-Attack Problem
 Andrey Lukyanenko (University of Kuopio, FI), Vladimir Mazalov (Russian Academy of Science, RU), Andrei Gurtov (Helsinki Institute for Information Technology, FI), Igor Falko (Russian Academy of Science, RU)

Session 16: Mobile Ad-hoc and Sensor Networks #4

Session Chair: Reza Peyrovian, AT&T Labs

- A Transmit Preprocessing Technique in Fixed Relay Networks for Practical Multiuser Transmission
 - Zeinolabedin Samadi, Abolfazl Falahati (Iran University of Science and Technology, IR)
- Predicting Mobility Metrics through Regression Analysis for Random, Group, and Grid-based Mobility Models in MANETs
 - Elmano Cavalcanti, Marco Spohn (Federal University of Campina Grande, BR)
- Timely-Efficient and Reliable Topologies for 3-D Sensor Networks
 Tarek El Salti, Nidal Nasser (University of Guelph, CA), Anwar Al-Yatama (Kuwait University, KW)
- A Novel Color Image Fusion QoS Measure for Multi-sensor Night Vision Applications Anwaar Haq, Iqbal Gondal, Marzur Murshed (Monash University, AU)
- (S) Using Wireless Sensor Networks for Energy-Aware Homes in Smart Grids Melike Erol-Kantarci, Hussein Mouftah (University of Ottawa, CA)

Session 17: Distributed and Mobile Middleware #1

Session Chair: Sherif Khattab, Cairo University

- The Real Ad-hoc Multi-hop Peer-to-peer (RAMP) Middleware: an Easy-to-use Support for Spontaneous Networking Paolo Bellavista, Antonio Corradi, Carlo Giannelli (University of Bologna, IT)
- Handling Consistent Dynamic Updates on Distributed Systems
 Emiliano Tramontana, Giuseppe Pappalardo (Catania University, IT), Filippo Bannò (Scuola Superiore di Catania, IT)
- CLEVER: A CLoud-Enabled Virtual EnviRonment Francesco Tusa, Maurizio Paone, Massimo Villari, Antonio Puliafito (University of Messina, IT)
- Service Group Management facilitated by DSL driven Policies in embedded Middleware Christopher Foley, Gemma Power, Chen Chen, Niall Donnelly, Leigh Griffin, Eamonn de Leastar (Waterford Institute of Technology, IE)
- (S) A Service Oriented System for Fleet Management and Traffic Monitoring Maurizio Giacobbe, Antonio Puliafito, Massimo Villari (University of Messina, IT)

Session 18: Routing and Multicast #1

Session Chair: Lynda Mokdad, University of Paris 12

- Highly Dynamic Routing Protocol for Data Aggregation in Sensor Networks
 Leandro Villas (Federal University of Minas Gerais, BR), Azzedine Boukerche (Univ. of Ottawa,
 CA), Regina Araujo (Federal University of São Carlos, BR), Antonio A.F. Loureiro (Federal
 University of Minas Gerais, BR)
- DUOS Simple Dual TCAM Architecture for Routing Tables with Incremental Update Tania Mishra, Sartaj Sahni (University of Florida, US)

- CONSIST Consistent Internet Route Updates
 Tania Mishra, Sartaj Sahni (University of Florida, US)
- A Study of MANET Routing Protocols: Joint Node Density, Packet Length and Mobility Nurul Sarkar, Wilford Lol (Auckland University of Technology, NZ)

Session 19: Multimedia and Image Processing

Session Chair: Youcef Samir, LAMSADE

- ACTGIS: A Web-based Collaborative Tiled Geospatial Image Map System
 Chunyang Hu, Yongwang Zhao, Xin Wei, Du Bowen, Dianfu Ma (Beihang University, CN), Xuan
 Li (China Academy of Space Technology (CAST), CN
- Automated Multi-sensor Color Video Fusion for Nighttime Video Surveillance Anwaar Haq, Iqbal Gondal, Marzur Murshed (Monash University, AU)
- Performance Evaluation of MPEG-4 Video Transmission with the Adaptive Smooth Multicast Protocol (ASMP)
 Christos Bouras (University of Patras, GR), Apostolos Gkamas (Research Academic Computer
 - Technology Institute, GR), Georgios Kioumourtzis (University of Patras, GR)
- (S) Modeling Human-like Autonomous Behaviors and Movements of Virtual Humans in Real-time Virtual Environment
 Weibin Liu (Beijing Jiaotong University, CN), Liang Zhou, Weiwei Xing, Baozong Yuan (Institute of Information Science, Beijing Jiaotong University, CN)

Session 20: Mobile Ad-hoc and Sensor Networks #5

Session Chair: Gianluca Dini, University of Pisa

- Optimized Sink Mobility for Energy and Delay Efficient Data Collection in FWSNs Sharhabeel Alnabelsi, Hisham Almasaeid, Ahmed Kamal (Iowa State University, US)
- GLOBAL: a Gradient-based routing protocol for LOad-BALancing in large-scale wireless sensor networks with multiple sinks
 Hongseok Yoo, Moonjoo Shim, Dongkyun Kim (Kyungpook National University, KR), Kyu Hyung Kim (Electronic and Telecommunications Research Institute, KR)
- (S) Towards a Flexible Event-Detection Model for Wireless Sensor Networks Eduardo Nakamura (FUCAPI, BR), Efren Souza (Federal University of Amazonas, BR)
- (S) A New Approach for Distributed Image Coding in Wireless Sensor Networks
 Mohamadreza Jamali (K. N. Toosi University of Technology, IR), Saadan Zokaei (University of
 Technology of Tehran, IR), Hamid Rabiee (Sharif University of Technology, IR)
- (S) An Effective Approach for Injecting Faults in Wireless Sensor Network Operating Systems Catello Di Martino, Marcello Cinque, Domenico Cotroneo, Alessandro Testa (University of Naples Federico II, IT)

Session 21: Distributed and Mobile Middleware #2

Session Chair: Luca Foschini, University of Bologna

- MultiCaR: Remote Invocation for Large Scale, Context-aware Applications
 Gianpaolo Cugola (Politecnico di Milano, IT), Matteo Migliavacca (Imperial College London, UK)
- Rapid and Efficient Application Design using a Signal Processing Framework for WSN
 Carlo Caione (University of Bologna, IT), Davide Brunelli (University of Trento, IT), Luca Benini
 (University of Bologna, IT)
- Improving HTTP-based Video Performance using Network Flow Buffering Jesse Steinberg, Joseph Pasquale (University of California, San Diego, US)
- A DDS-Compliant Infrastructure for Fault-Tolerant and Scalable Data Dissemination Luca Foschini, Antonio Corradi, Luca Nardelli (University of Bologna, IT)
- Automatic Concurrency Management for Networked Applications
 Huiba Li, Shengyun Liu, Yuxing Peng, Dongsheng Li (National University of Defense Technology, CN)
- (S) Translucent Middleware Approach to Facilitate WSN Access Management Luca Foschini, Antonio Corradi, Giuseppe Cardone (University of Bologna, IT)

Session 22: Routing and Multicast #2

Session Chair: Solange Rito Lima, University of Minho

- Anycast Routing in Mobile Opportunistic Networks Yongping Xiong, Limin Sun (Chinese Academy of Sciences, CN), Wenbo He (University of Nebraska-Lincoln, US), Jian Ma (Nokia Research Center, CN)
- On Optimal Multipath Rate-adaptive Routing Gábor Rétvári, Gábor Németh (Budapest University of Technology and Economics, HU)
- Light-Hierarchy: the Optimal Structure for Multicast Routing in WDM Mesh Networks Fen Zhou, Miklos Molnar (INSA Rennes / IRISA, FR), Bernard Cousin (IRISA, University of Rennes 1, FR)
- Reduced-Complexity Spectrum-Efficient Routing in TDMA Multihop Wireless Networks Mohamed Saad (University of Sharjah, AE)
- Delay-based Quality of Service through Intra-Domain Differentiated Routing with Optimised Link Weight Setting Ioannis Papanagiotou, Michael Howarth (University of Surrey, UK)

Session 23: NGN Infrastructure and Management

Session Chair: Susana Sargento, University of Aveiro

- Interworking Components for the End-to-end QoS into IMS-Based Architecture Mono Provider Imene Elloumi, Michelle Sibilla, Desprats Thierry (Paul Sabatier University & Sup'Com, FR), Sami Tabbane (Sup Telecom, TN)
- SMS over LTE: Interoperability between Legacy and Next Generation Networks
 Filipe A. Leitão, Sérgio S. Freire (Portugal Telecom Inovação, PT), Solange Lima (University of
 Minho, PT)
- An IMS Architecture with QoS Parameters for Flexible Convergent Services
 Miguel Navarro, Yezid Donoso, Viviana Rodriguez (Universidad de los Andes, CO)
- Context-aware Selection in Multicast Environments

- Nuno Coutinho, Tiago Condeixa, Rui Valbom, Susana Sargento (University of Aveiro, PT), Augusto Neto (University of Aveiro, PT & Universidade Federal de Goias, BR)
- Link-based Spectrum Section Sensing for Cognitive Radio Networks Yean-Fu Wen (National Chiayi University, TW)

Session 24: Handoff and Mobile Communications

Session Chair: Eduardo Nakamura, FUCAPI

- Adaptive Seamless Association Handoff for Guaranteeing Real-Time Traffic in WiMAX Mobile Networks
 Ben-Jye Chang (National Yunlin University of Science and Technology, TW), Ren-Hung Hwang,
 - Yan-Min Lin (National Chung-Cheng University, TW), Ying-Hsin Liang (Nankai University of Technology, TW)
- Adaptive Ranging Algorithm for Fast Seamless Handoff in WiMAX Mobile Networks
 Ben-Jye Chang (National Yunlin University of Science and Technology, TW), Ying-Hsin Liang
 (Nankai University of Technology, TW), Sung-Ju Hsieh (Chaoyang University of Technology, TW)
- (S) Mobile Positioning in a Gaussian Scattering Channel Model Mohamed Zhaounia (Ecole Superieure des Communications, TN) Mohamed Adnan Landolsi (King Fahd University, SA), Ridha Bouallegue (Ecole Superieure des Communications, TN)
- (S) Joint Throughput and Packet Loss Probability Analysis of IEEE 802.11 Networks Stepan Ivanov, Sasitharan Balasubramaniam, Dimitri Botvich (Waterford Institute of Technology, IE)
- (S) A New Range Estimation Algorithm with Low Complexity for IEEE 802.15.4a JeongHwan Lee, JongWha Chong (University of Hanyang, KR)

Friday, June 25, 2010

Session 25: Management of Distributed Systems and Service Oriented Architectures #1

Session Chair: Gianpaolo Cugola, Politecnico di Milano

- An Infrastructure for Executing WS-BPEL Workflows in a Cluster of Clusters
 Thiago Lechuga, Maria Beatriz Toledo (University of Campinas, BR), Miriam Capretz (University
 of Western Ontario, CA)
- An Adaptive Heuristic Approach for Distributed QoS-based Service Composition Jing Li, Dianfu Ma, Min Liu, Hailong Sun (Beihang University, CN)
- Response Times of BPEL4WS Constructors
 Serge Haddad (ENS de Cachan, FR), Lynda Mokdad (Université Paris 12, FR), Samir Youcef (Université Paris Dauphine, FR)
- (S) Supporting Performance and Adaptivity on BSP Processes Rescheduling Rodrigo Righi, Laercio Pilla, Alexandre Carissimi, Philippe O. A. Navaux (Universidade Federal do Rio Grande do Sul, BR), H.-U. Heiss (Technical University Berlin, DE)
- (S) A Link-Layer-Based Self-Replicating Vulnerability Discovery Agent
 Ziyad Al-Salloum (University of London, UK), Stephen Wolthusen (Gjøvik University College, NO)

Session 26: Peer-to-Peer Computing #1

Session Chair: Maria Beatriz Toledo, University of Campinas

- BiTIT: Throttling BitTorrent Illegal Traffic Sinan Hatahet, Yacine Challal, Abdelmadjid Bouabdallah (Université de Technologie de Compiègne, FR)
- Insights into Peer-to-peer Traffic through Nonlinear Analysis
 Francesco Palmieri, Ugo Fiore (University of Napoli Federico II, IT)
- Improving the Routing Performance of KAD through Social Network Analysis
 Xiangtao Liu, Shuo Bai, You Chen, Xueqi Cheng (Chinese Academy of Sciences, CN)
- A Novel Architecture for a Peer-to-peer Session Initiation Protocol
 Pelagie Houngue (University of Milan, IT), Roch Glitho (Concordia University, CA), Ernesto
 Damiani (University of Milan, IT)
- (S) Quality of Service for Overlay Multicast in Chord Marc Brogle, Andreas Rüttimann, Torsten Braun (University of Bern, CH)

Session 27: Internet Services and Applications #1

Session Chair: Dimitrios Vergados, University of Piraeus

- Synchronizing Web Browsing Data with Browserver Leandro Carvalho, Raquel do Valle, Alexandre Passito, Edjard Mota, Raoni Novellino, Adriana Penaranda, Diogenes Freitas (Federal University of Amazonas, BR)
- SEDA4BPEL: a Staged Event-Driven Architecture for High-Concurrency BPEL Engine Dou Sun, Dianfu Ma, Yongwang Zhao, Hao Zeng (Beihang University, CN)
- Characteristics and Evolution of Content Popularity and User Relations in Social Networks
 Claudia Canali, Michele Colajanni, Riccardo Lancellotti (University of Modena and Reggio Emilia,
 IT)

- (S) A Consolidated Power Saving Architecture Accommodating Push-type Applications for Dualmode Devices
 - Naoki Imai, Manabu Isomura, Kiyohito Yoshihara (KDDI R&D Laboratories Inc., JP)
- (S) Design and Implementation of an Advanced Service Architecture for MBS over WiMAX Mauro Femminella, Roberto Francescangeli, Gianluca Reali (University of Perugia, IT)

Session 28: Mobile and Wireless Applications

Session Chair: Nurul Sarkar, AUT University

- Low-Complexity Aggregation of Collected Images with Correlated Fields of View in Wireless Video Sensor Networks
 Dongeun Lee, Jonghun Lee, Yonghee Lee, Heejung Lee, Heonshik Shin (Seoul National University, KR)
- A Reputation-based Approach to Tolerate Misbehaving Carriers in Delay Tolerant Networks Gianluca Dini, Angelica Lo Duca (University of Pisa, IT)
- Bluepass: an Indoor Bluetooth-based Localization System for Mobile Applications
 Javier Diaz, Rodrigo de A. Maués, Rodrigo Soares, Eduardo Nakamura, Carlos Figueiredo
 (FUCAPI, BR)
- (S) GOP Size Influence in High Resolution Video Streaming over Wireless Mesh Network Rafael Sousa, Edjair Mota, Edson N. Silva Jr. (Federal University of Amazonas, BR), Bruno Faria (Nokia Institute of Technology, BR), João Batista Pinto Neto (Public State Ministry of Law, BR)

Session 29: Management of Distributed Systems and Service Oriented Architectures #2

Session Chair: Carlos Calafate, Technical University of Valencia

- Dependability Enhancement for Coalition Clusters with Autonomic Failure Management Song Fu (New Mexico Institute of Mining and Technology, US)
- Efficient Method of Station Selection for Passive Monitoring in Distributed Network Using Information Gain
 - Xiang Li, Feng Qi, YiGuo Yuan, Qiu Xue-song (Beijing University of Posts and Telecommunications, CN)
- (S) Prioritizing Power Management and Reducing Downtime for Energy Conservation in Data Centers
 - Teng Moh, Barath Kuppuswamy, Melody Moh (San Jose State University, US)
- (S) A Service Oriented Architecture for Basic Autonomic Network Management
 Pedro Martinez-Julia, Antonio Mar´ın Cerezuela, Antonio Fernando Gomez-Skarmeta (University
 of Murcia, ES)
- (S) QoS-RRC: Integrated QoS Routing and Resource Provisioning Mechanism for Future Internet Augusto Neto, Leandro Maçal (Instituto de Informática – UFG, BR), Sérgio Figueiredo (Instituto de Telecomunicações, PT), Rui Aguiar (University of Aveiro, PT)

Session 30: Peer-to-Peer Computing #2

Session Chair: Mauro Femminella, University of Perugia

- A K-coordinated Decentralized Replica Placement Algorithm for the Ring-Based CDN-P2P Architecture
 - Zhan Wang (Graduate University of Chinese Academy of Sciences, CN), Hai Jiang, Yi Sun, Jun Li, Jing Liu (Institute of Computing Technology, Chinese Academy of Sciences, CN), Eryk Dutkiewicz (Macquarie University, AU)
- HYGRA: A Decentralized Protocol for Resource Discovery and Job Allocation in Large Computational Grids
 - Fabrizio Messina, Giuseppe Pappalardo, Corrado Santoro (University of Catania, IT)
- SMBR: A Novel NAT Traversal Mechanism for Structured Peer-to-Peer Communications
 Pinggai Yang (Chinese Academy of Sciences, CN), Jun Li, Jun Zhang, Hai Jiang, Yi Sun (Institute
 of Computing Technology, Chinese Academy of Sciences, CN), Eryk Dutkiewicz (Macquarie
 University, AU)
- A Trust Model in P4P-Integrated P2P Networks Based on Domain Management Yang Guobiao (Chinese Academy of Sciences, CN), Yi Sun, Haibo Wu, Jun Li, Ning Liu (Institute of Computing Technology, Chinese Academy of Sciences, CN), Eryk Dutkiewicz (Macquarie University, AU)
- (S) Multistage Congestion Games for Live-Streaming Gabriele D'Angelo, Stefano Ferretti, Giovanni Rossi (University of Bologna, IT)

Session 31: Internet Services and Applications #2

Session Chair: Ali Daneshmand, AT&T

- Enhanced Floor Control Protocol for PoC Application in Data Packet Voice Communication
 Hai Jiang (Chinese Academy of Sciences, CN), Albert K. Wong (Hong Kong University of Science
 and Technology, HK), Vincent Luk, Xiyu Duan (HKUST, HK), Jun Li (Institute of Computing
 Technology, Chinese Academy of Sciences, CN), Chenguang Ma (Institute of Computing
 Technology, Chinese Academy of Sciences, CN)
- A Mobile Tourism Recommender System
 Michael Kenteris (Department of Cultural Technology and Communication, GR), Damianos
 Gavalas, Aristides Mpitziopoulos (University of the Aegean, GR)
- A Comparison of Internal Timings on Bare Machine and OS-based Email Servers George Ford, Ramesh Karne, Alexander Wijesinha, Songjie Liang (Towson University, US)
- Dynamic Assignment of Multicast Groups to Publish-Subscribe Topics Visa Holopainen (Helsinki University of Technology, FI)
- (S) A Recommender System based on a Generic Contextual Advertising Approach Andrea Addis, Giuliano Armano, Alessandro Giuliani, Eloisa Vargiu (University of Cagliari, IT)
- (S) Near-Optimal Personalized Daily Itineraries for a Mobile Tourist Guide
 Michael Kenteris, Damianos Gavalas (Department of Cultural Technology and Communication,
 GR), Grammati Pantziou (Technological Educational Institution of Athens, GR), Charalampos
 Konstantopoulos (University of Piraeus, GR)

Session 32: Access Networks

Session Chair: Badii Jouaber, TELECOM SudParis

Dynamic Media Independent Information Server
 Pedro Neves (Portugal Telecom Inovação, PT), João Soares, Susana Sargento (University of Aveiro, PT)

- Point of Attachment Selection in Heterogeneous Radio Access Technology Environments Jongwook Lee, Saewoong Bahk (Seoul National University, KR)
- Periodic GATE Optimization with QoS-Awareness for Long-Reach Passive Optical Networks Burak Kantarci, Hussein Mouftah (University of Ottawa, CA)
- Performance Comparison between Dynamic Protection Schemes in Survivable WDM Mesh Networks
 - Abdelhamid Eshoul, Hussein Mouftah (University of Ottawa, CA)
- (S) An Access Network Selection Algorithm for Heterogeneous Wireless Environments Angeliki Sgora, Dimitrios D. Vergados (University of Piraeus, GR), Periklis Chatzimisios (Alexander TEI of Thessaloniki, GR)

Session 33: Network Design, Optimization, and Management

Session Chair: Reza Peyrovian, AT&T Labs

- Coupling Wavelength Assignment in Bidirectional Light path Is It Worth the Extra Cost?
 Arularasi Sivasankaran, Miguel Razo, Shreejith Billenahalli, Wanjun Huang, Limin Tang, Marco Tacca, Andrea Fumagalli (University of Texas at Dallas, US)
- Link Weight Optimization for Enhancing IP Resilience using Multi-plane Routing
 Yu Guo, Ning Wang, Michael Howarth (University of Surrey, UK), Kin-Hon Ho (The Hong Kong
 Polytechnic University, HK)
- Accelerating Network Applications on X86-64 Platforms Gao Xia, Bin Liu (Tsinghua University, CN)
- A Scalable Multi-Tier Task Assignment Policy with Minimum Excess Load
 Malith Jayasinghe, Zahir Tari, Panlop Zeephongsekul (Royal Melbourne Institute of Technology,
 AU)
- (S) Graph-based Automatic Centralized PCI Assignment in LTE Yanguang Liu, Wenjing Li, Heng Zhang, Weihao Lu (Beijing University of Posts and Telecommunications, CN)
- (S) TCP Window Estimation for Burst Assembly in OBS Networks Maurizio Casoni (University of Modena and Reggio Emilia, IT)

Session 34: Database and Data Mining Applications

Session Chair: Jesus Carretero, University Carlos III of Madrid

- Dynamic User Context Web Personalization in Meta-Portals Christos Bouras (University of Patras, GR), Vassilis Poulopoulos (Research Academic Computer Technology Institute, GR)
- Obfuscation-based Analysis of SQL Injection Attacks
 Raju Halder, Agostino Cortesi (Ca' Foscari University of Venice, IT)
- Sorting Large Records On A Cell Broadband Engine Shibdas Bandyopadhyay, Sartaj Sahni (University of Florida, US)
- (S) A Case for Reducing Link Stress in a Multimedia Streaming Service Backbone Aadil Khan, Shahab Bagai (Lahore University of Management Sciences, PK)

Session 35: Modeling and Simulation

Session Chair: Fabrizio Messina, University of Catania

- A Low Overhead Constant Time LTF Scheduler for Optimistic Simulation Systems Francesco Quaglia, Tiziano Santoro (Sapienza Università di Roma, IT)
- Buffer Length Impact to 32x32 Crosspoint Queued Crossbar Switch Performance Milutin Radonjic, Igor Radusinovic (University of Montenegro, ME)
- (S) A Hotspot Attraction Driven User Mobility Model and Direction Deciding Algorithm
 Hao Guo, Zhipeng Gao, Heng Zhang, Zhili Guan, Qiu Xue-song (Beijing University of Posts and
 Telecommunications, CN)
- (S) Integrating Functional Verification and Performance Analysis for Network Protocols using CPnets
 - Jing Liu (Chinese Academy of Sciences, CN), Xinming Ye (Inner Mongolia University, CN), Jun Zhang, Jun Li, Yi Sun (Chinese Academy of Sciences, CN)