IEEE Symposium on Computers and Communications 2008 (ISCC 2008)

July 6 - 9, 2008, Marrakech, Morocco

Program

The Welcome Address, Keynote Speeches and the Closing Plenary & Awards Session will be held in Room Agadir. For the presentation sessions, see the next chart.

Time	Monday, July 7	Tuesday, July 8	Wednesday, July 9
08:30 AM-09:00 AM	Welcome Address		
09:00 AM-09:45 AM	Keynote Speaker Dr. Khorram	Keynote Speaker Dr. Boutaba	Keynote Speaker Dr. Daneshmand
09:45 AM-10:15 AM	Break		
10:15 AM-12:00 PM	4 Parallel Sessions	4 Parallel Sessions	4 Parallel Sessions
12:00 PM-02:15 PM	Lunch		
02:15 PM-04:00 PM	4 Parallel Sessions	4 Parallel Sessions	4 Parallel Sessions
04:00 PM-04:30 PM	Break		
04:30 PM-06:00 PM	4 Parallel Sessions	4 Parallel Sessions	2 Parallel Sessions
06:00 PM-06:30 PM			Closing Plenary and Awards Session
07:00 PM-10:00 PM		Conference Banquet	

Titles of the Keynote Speeches:

- **Dr. Khorram:** The State-Of-The-Art In Acquiring And Processing Satellite Remotely Sensed Data Worldwide

- **Dr. Boutaba:** Distributed Pattern Matching: Concept and Applications in Internet-scale networks

- **Dr. Daneshmand**: Ten Years of Experimentation in Information Mining & Software Research with applications in Telecommunications Industry

Session Chart

Day	Time	Agadir	Erfoud	Fes	Ouarzazate
Mon	11:00 AM - 12:45 PM	Optical Networks	Service Oriented Architecture	MAC Rate Adaptation and TCP	Data Mining I
	02:15 PM - 04:00 PM	Cellular and Mobile Communications I	Secured Networks I	Mesh Networks I	Secured Systems
	04:30 PM - 06:00 PM	Cellular and Mobile Communications II	Secured Networks II	Mesh Networks II	Architecture
Tue	10:15 AM - 12:00 PM	Peer to Peer	Applications in Computers and Communications I	Wireless Network Models	Data Mining II
	02:15 PM - 04:00 PM	Mobility I	Applications in Computers and Communications II	Data Communications I	Software & Applications
	04:30 PM - 06:00 PM	Mobility II	Network Management	Data Communications II	Document Retrieval
Wed	10:15 AM - 12:00 PM	Quality of Service I	Routing I	Sensor Networks I	Image Processing
	02:15 PM - 04:00 PM	Quality of Service II	Routing II	Sensor Networks II	Systems
	04:30 PM - 06:00 PM	VoIP, Multicast, and Load Balancing		Sensor Networks III	

Monday, July 7, 10:15 AM - 12:00 PM

Optical Networks
Chair: Burak Kantarci (Istanbul Technical University, Turkey)
Room: Agadir

On Controlling Burst Loss Ratio Inside an OBS Network
    Wael Hosny Fouad Aly (University of Quebec in Montreal, Canada); Mohamed Faten
    Zhani (UQAM-Canada, ENSI-Tunisia, Canada); Halima Elbiaze (University of Quebec
    at Montreal, Canada)
Performance Evaluation of Routing and Wavelength Assignment Algorithms For Optical
Networks
    Eun-sung Jung (University of Florida, USA); Yan Li (University of Florida, USA);
    Sanjay Ranka (University of Florida, USA); Sartaj Sahni (University of Florida, USA)
Arranging Shareability Dynamically for the Availability-Constrained Design of Optical
Transport Networks
    Burak Kantarci (Istanbul Technical University, Turkey); Hussein Mouftah (University of
    Ottawa, Canada); Sema Oktug (Istanbul Technical University, Turkey)
A Novel Distributed Destination Routing Based Availability-Aware Provisioning Framework for
Differentiated Protection Services in Optical Mesh Networks
    Emad Al-Sukhni (University of Ottawa, Canada); Hussein Mouftah (University of
    Ottawa, Canada)
On the Application of Long SOAs in Linear Operating and Saturation Regimes: Exploitation in
High Bit Rate Optical Networks
    Youssef Said (National Engineering School of Tunis (ENIT), Tunisia); Houria Rezig
    (National Engineering School of Tunis (ENIT), Tunisia); Ammar Bouallegue (SysCom
    Lab, ENIT,, Tunisia)
Using Adapted Visibility Graphs for Network Planning
    Branka Lakic (Instituto de Telecomunicações, Portugal)

Service Oriented Architecture
Chair: Reza Peyrovian (AT&T, USA)
Room: Erfoud

Autonomous Preference-aware Multi-service Integration and Allocation
    Xiaodong Lu (Tokyo Institute of Technology, Japan)
Automating media processes in a Service Oriented Architecture
    Dietrich Van der Weken (VRT, Belgium); Stein Desmet (Ghent University, Belgium);
    Bjorn Muylaert (VRT, Belgium); Steven Van Assche (VRT MediaLab, Belgium); Bruno
    Volckaert (University of Ghent, Belgium)
Towards Business Model and Technical Platform for the Service Oriented Context-Aware
Mobile Virtual Communities
    Pravin Pawar (University of Twente, The Netherlands., The Netherlands); Julien
    Subercaze (INSA Lyon, France); Pierre Maret (INSA Lyon, France); Bert-Jan van

Beijnum (University of Twente, The Netherlands); Dimitri Konstantas (University of Geneva, Switzerland)

A user-centric composition model for the Internet of Services
>Antonio Corradi (University of Bologna, Italy); Enrico Lodolo (University of Bologna, Italy); Stefano Monti (University of Bologna, Italy); Samuele Pasini (University of Bologna, Italy)

MAC Rate Adaptation and TCP
Chair: Andrea Zanella (University of Padova, Italy)
Room: Fes

An Efficient Rate Adaptation Scheme for Multihop Wireless Networks Using Kalman Filter
>Basel Alawieh (Concordia University, Canada); Yongning Zhang (Concordia University, Canada); Chadi Assi (Concordia University, Canada); Hussein Mouftah (University of Ottawa, Canada)

Rate Adaptation Algorithms for IEEE 802.11 Networks: A Survey and Comparison
>Shaoen Wu (Auburn University, USA); Saad Biaz (Auburn University, USA)

A Robust Controller for the TCP Congestion Window
>Cire Sall (Faculty of Science and Technology of Marrakesh, Morocco)

A Dynamic Rate Adaptation with Fragmentation MAC Protocol against Channel Variation for Wireless LANs
>Kuei-Ping Shih (Tamkang University, Taiwan); San-Yuan Wang (I-Shou University, Taiwan); Chien-Min Chou (Tamkang University, Taiwan); Li-Jie Cheng (Tamkang University, Taiwan)

Adaptive Window Size to Reduce the Influence of Heterogeneous Mobility on TCP Performance
>Pablo Vidales (Deutsche Telekom Laboratories, Germany); Frank Steuer (Technische Universität Berlin, Germany); Albayrak Sahin (Technische University, Germany)

F^2-TCP: A Fairer and TCP-Friendlier Congestion Control Protocol for High-Speed Networks
>Shan Chen (The Hong Kong University of Science and Technology, Hong Kong); Junhua Zhu (The Hong Kong University of Science and Technology, Hong Kong); Brahim Bensaou (The Hong Kong University of Science and Technology, Hong Kong); Farid Naït-Abdesselam (University of Sciences and Technologies of Lille, France)

Evaluating and Improving the TCP/UDP Performances of IEEE 802.11(p)/1609 Networks
>Shie-Yuan Wang (National Chiao Tung University, Taiwan, Taiwan); Hsi-Lu Chao (National Chiao Tung University, Taiwan); Kuang-Che Liu (National Chiao Tung University, Taiwan); Ting-Wei He (National Chiao Tung University, Taiwan); Chih-Che Lin (National Chiao Tung University, Taiwan); Chih-Liang Chou (National Chiao Tung University, Taiwan)

Data Mining I
Chair: Khaled Ali (Queen's University, Canada)
Room: Ouarzazate

A Double K-Clustering Approach for Restructuring Distributed Object-Oriented Software

Safwat Hamad (Faculty of Computer and Information Sciences, Egypt); Tahany Fergany (Computer Sc. Dept, Univ. of New Haven, USA); Reda Ammar (University of Connecticut, USA); Amal Abdel-raouf (Southern Connecticut State University, USA)

Mining Drug Targets based on Microarray Experiments

Hisham ElShishiny (IBM, Egypt); Taysir Hassan (Assiut University, Egypt); Mohamed El-Asmar (IBM Cairo CAS, Egypt)

Mining Software Aging: A Neural Network Approach

Hisham ElShishiny (IBM, Egypt); Sally Deraz (IBM Cairo Technology Development Center, Egypt); Omar Bahy (Ottawa University, Canada)

Investigation of Feature Dimension Reduction based DCT/SVM for Face Recognition

Aouatif Amine (Mohammed V University, Morocco); Sanaa Ghouzali (Mohammed V University, Morocco); Mohammed Rziza (University Mohammed V, Morocco); Driss Aboutajdine (GSCM_LRIT Mohammed V-agdal University, Morocco)

Monday, July 7, 2:15 PM - 4:00 PM

Cellular and Mobile Communications I
Chair: Driss Aboutajdine (GSCM_LRIT Mohammed V-agdal University, Morocco)
Room: Agadir

Power-Controlled Rate and Coverage Adaptation for WCDMA Cellular Networks
> Khaled Ali (Queen's University, Canada); Hossam Hassanein (Queen's University, Canada); Hussein Mouftah (University of Ottawa, Canada)

Uplink Call Admission Control in Multi-services W-CDMA Network
> Rachid El-Azouzi (LIA/CERI Universite of Avignon, France); Khalil Ibrahimi (University of Avignon, France); Bouyakhf Houssine (Université Mohammed V Agdal, Morocco)

A Resource Allocation Algorithm and System Architecture to Extend the Cell Coverage and Alleviate the Inter-Cell Interference
> Woonsik Lee (KAIST (Korea Advanced Institute of Science and Technology), Korea); Minh-Viet Nguyen (Korean Advanced Institute of Science and Technology, Korea); Hwang Soo Lee (KAIST, Korea)

A Study on Optimal Termination Target of Synchronous H-ARQ for the Next Generation Cellular System
> Toshihiko Komine (KDDI R&D Labs., Inc., Japan); Satoshi Konishi (KDDI R&D Laboratories Inc., Japan); Hiroyuki Shinbo (KDDI R&D Laboratories, Japan)

Secured Networks I
Chair: Josep Selga (University Ramon Llull, Spain)
Room: Erfoud

Analyzing a Human-based Trust Model for Mobile Ad Hoc Networks
> Pedro Velloso (Paris VI, France); Rafael Laufer (University of California at Los Angeles, USA); Otto Duarte (Universidade Federal do Rio de Janeiro, Brazil); Guy Pujolle (University of Paris 6, France)

A Sybilproof Distributed Identity Management for P2P Networks
> François Lesueur (SUPELEC, France); Ludovic Me (Supelec, France); Valérie Viet Triem Tong (Supelec, France)

An analysis of ASMA performances against packet dropping attacks in dense networks
> Vincent Toubiana (Ecole Nationale Superieure des Telecommunications, France); Houda Labiod (ENST, France); Yvon Gourhant (France Telecom R&D, France); Laurent Reynaud (Orange Labs, France)

The Impact of Wireless LAN Security on Performance for Different Windows Operating Systems
> Samad Kolahi (Unitec Institute of Technology, New Zealand)

Mesh Networks I

Chair: Azzedine Boukerche (Univ. of Ottawa, Canada)
Room: Fes

[Efficient Routing in WiMax/802.16 based Mesh Networks with Centralized Scheduling.](#)
      Jad El-Najjar (Concordia University, Canada); Brigitte Jaumard (Concordia University,
      Canada); Chadi Assi (Concordia University, Canada)
[Distributed Channel Assignment for Multi-Radio Wireless Mesh-Networks](#)
      Mesut Guenes (FU Berlin, Germany); Sadeq Makram (RWTH Aachen University,
      Germany)
[Managing Community Aware Wireless Mesh Networks](#)
      João Paulo Barraca (University of Aveiro, Portugal); Rui Aguiar (University of Aveiro,
      Portugal)
[Header Compression for VoIP Over Multi-hop Wireless Mesh Networks](#)
      Andrea Giordanna Nascimento (Federal University of Amazonas, Brazil); Edjair Mota
      (Federal University of Amazonas, Brazil); Saulo Queiroz (Federal University of
      Amazonas, Brazil); Arlen Nascimento (Federal University of Amazonas, Brazil); Edjard
      Mota (Federal University of Amazonas, Brazil); Edson Nascimento (Federal University
      of Amazonas, Brazil)
[Mesh Topology Viewer (MTV): an SVG-Based Interactive Mesh Network Topology](#)
[Visualization Tool](#)
      Rafael Valle (Federal Fluminense University, Brazil); Debora Muchaluat-Saade
      (Universidade Federal Fluminense, Brazil); Diego Passos (Universidade Federal
      Fluminense, Brazil); Celio Albuquerque (Fluminense Federal University, Brazil)

Secured Systems
Chair: Seong Mun (Georgetown University, USA)
Room: Ouarzazate

[Highly Compressed Aho-Corasick Automata For Efficient Intrusion Detection](#)
      Xinyan Zha (University of Florida, USA); Sartaj Sahni (University of Florida, USA)
[Efficient Disk Encryption and Verification through Trusted Nonce](#)
      Fangyong Hou (National University of Defense Technology, P.R. China); Dawu Gu
      (Shanghai Jiao Tong University, P.R. China)
[Fast Multiplication Techniques for Public Key Cryptography](#)
      Michael Kounavis (Intel Corporation, USA); Vinodh Gopal (Intel Corporation, USA);
      Satyajit Grover (Intel Corporation, USA)
[UBSF: A Novel Online URL-Based Spam Filter](#)
      Yang Li (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)
[Evaluation of Resilience for Distributed Data Centers](#)
      Yehia Khalil (University of Louisville, USA); Adel Elmaghraby (University of Louisville,
      USA); Anup Kumar (University Of Louisville, USA)
[Building a Secure Medical Research Organization](#)
      Adil Alaoui (Georgetown University Medical Center, USA); Seong Mun (Georgetown
      University, USA)

Monday, July 7, 4:30 PM - 6:00 PM

Cellular and Mobile Communications II
Chair: Ali Hurson (Missouri University of Science and Technology, USA)
Room: Agadir

A New Approach for Efficient MBMS Service Provision in UTRAN
> Christoforos Christoforou (University of Cyprus, Cyprus); Andreas Pitsillides (University of Cyprus, Cyprus)

An Enhanced approach for Efficient MBMS Handovers in 3G Networks
> Christoforos Christoforou (University of Cyprus, Cyprus); Andreas Pitsillides (University of Cyprus, Cyprus)

Power Counting for Optimized Capacity in MBMS Enabled UTRAN
> Andreas Panayides (University of Cyprus, Cyprus); Christoforos Christoforou (University of Cyprus, Cyprus); Josephina Antoniou (University of Cyprus, Cyprus); Andreas Pitsillides (University of Cyprus, Cyprus); Vasos Vassiliou (University of Cyprus, Cyprus)

Access Control in Group Communication Systems
> Qi Li (Tsinghua University, P.R. China)

Secured Networks II
Chair: Mazen Khair (University of Ottawa, Canada)
Room: Erfoud

FlexBox: Sandboxing Internet Servers based on Layer-7 Contexts
> Ayumu Tanoue (Keio University, Japan); Makoto Shimamura (Keio University, Japan); Miyuki Hanaoka (Keio University, Japan); Kenji Kono (Keio Univ., Japan)

A Two-Level Source Address Spoofing Prevention based on Automatic Signature and Verification Mechanism
> Jun Bi (Tsinghua University, P.R. China)

An Unsupervised Network Anomaly Detection Approach by K-Means Clustering & ID3 Algorithms
> Yasser Yasami (Amirkabir University of Technology, Iran)

Mesh Networks II
Chair: Wessam Ajib (Universite de Quebec a Montreal, Canada)
Room: Fes

End-to-end Shared Restoration Algorithms in Multi-domain Mesh Networks
> Zhiying Gao (Lakehead University, Canada); Hassan Naser (Lakehead University, Canada)

High Throughput Path Selection Mechanism for Multi-Path Video Streaming in Ad-Hoc Networks

Ahmed Abd El Al (City University of New York, USA); Tarek Saadawi (The City College/The City University of New York, USA)

A Load aware Routing Metric for Wireless Mesh Networks

Lan Tien Nguyen (Japan Advanced Institute of Science and Technology, Japan); Razvan Beuran (National Institute of Information and Communications Technology, Japan); Yoichi Shinoda (Japan Advanced Institute of Science and Technology, Japan)

CLE^2aR^2: A Cross-Layer Energy-Efficient and Reliable Routing Protocol for Wireless Ad Hoc Networks

Kuei-Ping Shih (Tamkang University, Taiwan); Hung-Chang Chen (Tamkang University, Taiwan); Chun-Chih Li (Tamkang University, Taiwan); Hsiang-I Chen (Tamkang University, Taiwan)

Architecture
Chair: Tarek El-Ghazawi (The George Washington University, USA)
Room: Ouarzazate

Pro-active Task Sharing in a Self-organizing Server Cluster

Samah Senbel (Arab Academy for Science and Technology, Egypt)

Model for On-Demand Virtual Computing Architectures - OVCA

Alejandra Rodriguez (Universidad Carlos III de Madrid, Spain); Javier Fernandez (Universidad Carlos III de Madrid, Spain); Jesus Carretero (Universidad Carlos III de Madrid, Spain)

Performance Modeling of A Grid-based Data Distributed Management Protocol

Yunfeng Gu (University of Ottawa, Canada); Azzedine Boukerche (Univ. of Ottawa, Canada)

Improving Reliability and Energy Efficiency of Disk Systems via Utilization Control

Kiranmai Bellam (Auburn University, USA); Xiao Qin (Auburn University, USA); Adam Manzanares (Auburn University, USA); Xiaojun Ruan (Auburn University, USA); Yiming Yang (Intel Corporation, USA)

The Impact of Interconnection Networks and Applications Granularity to Compound Cluster Configurations

Mario Dantas (UFSC, Brazil); Rodrigo Mendonça (Federal University of Santa Catarina (UFSC), Brazil); Luiz Carlos Pinto (Federal University of Santa Catarina, Brazil)

Building Efficient Multi-Core Clusters for High Performance Computing

Luiz Carlos Pinto (Federal University of Santa Catarina, Brazil); Luiz Henrique Tomazella (Federal University of Santa Catarina, Brazil); Mario Dantas (UFSC, Brazil)

Tuesday, July 8, 10:15 AM - 12:00 PM

Peer to Peer
Chair: Bert-Jan van Beijnum (University of Twente, The Netherlands)
Room: Agadir

P-CDN: Extending Access Control Capabilities of P2P Systems to provide CDN Services
> Bruno Crispo (Universita di Trento, Italy); Fatih Turkmen (University of Trento, Italy); Pietro Mazzoleni (Università di Milano, Italy)

Multicast-P2P Content Distribution in Large-Scale Enterprise Networks
> Alberto Aguilar (Florida International University, USA); Raime Bustos (Florida International University, USA); Kia Makki (Florida International University, USA); Raimund Ege (Florida International University, USA)

VoRaQue: Range Queries on Voronoi Overlays
> Michele Albano (University of Pisa, Italy); Martina Baldanzi (National Research Council, Italy); Ranieri Baraglia (ISTI-CNR, Italy); Laura Ricci (University of Pisa, Italy)

TorrentLab: investigating BitTorrent through simulation and live experiments
> Marinho Barcellos (PUCRS University, Brazil); Rodrigo Mansilha (UNISINOS, Brazil); Francisco Brasileiro (Universidade Federal de Campina Grande (UFCG), Brazil)

T2MC: A Peer-to-Peer Mismatch Reduce Technique by Traceroute and 2-Means Classification Algorithm
> Hao Gong (Huawei Technologies Co., Ltd, P.R. China); Guangyu Shi (Huawei Technologies Co., Ltd, P.R. China); Jian Chen (Huawei Technologies Co., Ltd, P.R. China); Youshui Long (Huawei Technologies Co., Ltd, P.R. China)

A Real-Time Road Traffic Information System based on a Peer-to-Peer Approach
> Chien-Ming Cheng (National Chiao Tung University, Taiwan); Shiao-Li Tsao (National Chiao Tung University, Taiwan)

Applications in Computers and Communications I
Chair: Narayan Debnath (Winona State University, USA)
Room: Erfoud

Formal Automated Transformation of SDL Specification to Lotos Specifications
> Hazem El-Gendy (Assistant Minister, Egypt)

Tile Logic as an Architectural Model for Mobility
> Chafia Bouanaka (University Mentouri of Constantine, Algeria, Algeria); Faiza Belala (Mentouri University, Algeria)

Comparison of Four Similarity Measures Based on GO Annotation for gene Clustering
> Hisham Al-Mubaid (University of Houston-Clear lake, USA); Anurag Nagar (University of Houston-Clear lake, USA)

Countering Sinkhole and Black hole Attacks on Sensor Networks using Dynamic Trust Management
> Subhrabrata Choudhury (National Institute of Technology-Durgapur, India)

A Proactive Burst Assembly Algorithm for Optical Burst Switched Network

Subhrabrata Choudhury (National Institute of Technology-Durgapur, India); Narayan
Debnath (Winona State University, USA)

Wireless Network Models
Chair: Nicola Altan (University of Duisburg-Essen, Germany)
Room: Fes

Modeling Wireless Channel for Ad-Hoc Network Routing Protocol
> Tarek Saadawi (The City College/The City University of New York, USA); Merlinda
> Drini (City College of the City University of New York, USA)

A queuing analysis of packet dropping for Real-Time Applications
> Rachid El-Azouzi (LIA/CERI Universite of Avignon, France); Abdellatif Kobbane
> (Université d'Avignon, France); Bouyakhf Houssine (Université Mohammed V Agdal,
> Morocco)

Multicast in Wireless Erasure Networks with Feedback
> Sriram Vishwanath (University of Texas at Austin, USA); Chong Jiang (University of
> Texas at Austin, USA); Brian Smith (University of Texas at Austin, USA); Babak
> Hassibi (California Institute of Technology, USA)

Impact Evaluation of Radio Propagation Models on Performance Parameters of Application
Layer in Wireless Mesh Backbone Simulation
> Saulo Queiroz (Federal University of Amazonas, Brazil); Arlen Nascimento (Federal
> University of Amazonas, Brazil); Edjair Mota (Federal University of Amazonas, Brazil);
> Andrea Giordanna Nascimento (Federal University of Amazonas, Brazil); Leandro
> Carvalho (Federal University of Amazonas, Brazil); Edson Nascimento (Federal
> University of Amazonas, Brazil)

Data Mining II
Chair: Hichem Frigui (University of Louisville, USA)
Room: Ouarzazate

Document Clustering Based on Diffusion Maps and a Comparison of the k-means performances
in various spaces
> Fadoua Ataa Allah (University Mohamed V - Agdal, Morocco); William Grosky (U of
> Michigan, USA); Driss Aboutajdine (GSCM_LRIT Mohammed V-agdal University,
> Morocco)

Semi-Supervised Clustering and Aggregation of Relational Data
> Hichem Frigui (University of Louisville, USA)

Tuesday, July 8, 2:15 PM - 4:00 PM

Mobility I
Chair: Bert-Jan van Beijnum (University of Twente, The Netherlands)
Room: Agadir

[Session Mobility in the Mockets Communication Middleware](#)
> Cesare Stefanelli (University of Ferrara, Italy); Mauro Tortonesi (University of Ferrara, Italy); Erika Benvegnù (Florida Institute for Human & Machine Cognition, Italy); Niranjan Suri (Florida Institute for Human & Machine Cognition, USA)

[Release of Unnecessary Resource Reservation in Mobility Cases](#)
> Lin Hai (Telecom Paris (ENST, France), France); Houda Labiod (ENST, France)

[Interface Selection Mechanisms in Multi-Homed Mobile Nodes using Game Theory](#)
> Omar Raoof (Brunel University, United Kingdom)

[A Reference Architecture for Micro-Mobility Support in IP Networks](#)
> Rodrigo Prado (State University of Campinas, Brazil); Eduardo Zagari (State University of Campinas, Brazil); Tomás Badan (Federal University of Goiás, Brazil); Eleri Cardozo (State University of Campinas - School of Electrical and Computer Engineering, Brazil); Maurício Magalhães (University of Campinas (Unicamp), Brazil); José Carrilho (State University of Campinas, Brazil); Rossano Pinto (State University of Campinas - School of Electrical and Computer Engineering, Brazil); André Berenguel (State University of Campinas, Brazil); Daniel Barboza (State University of Campinas, Brazil); Daniel Moraes (State University of Campinas, Brazil); Thienne Johnson (State University of Campinas - School of Electrical and Computer Engineering, Brazil); Lars Westberg (Ericsson Research, Sweden)

[Pitfalls and Tradeoffs on Dealing with Handoff Management in Bluetooth-based WPANs for Real-Time Applications](#)
> Loreno Oliveira (Federal University of Campina Grande, Brazil); Leandro da Silva (Paraíba State University, Brazil); Kyller Gorgônio (Federal University of Campina Grande, Brazil); Angelo Perkusich (Federal University of Campina Grande, Brazil)

Applications in Computers and Communications II
Chair: Narayan Debnath (Winona State University, USA)
Room: Erfoud

[Using Path Length Measure for Gene Clustering Based on Similarity of Annotation Terms](#)
> Anurag Nagar (University of Houston-Clear lake, USA); Hisham Al-Mubaid (University of Houston-Clear lake, USA)

[Towards Sound development of PIXITP](#)
> Hazem El-Gendy (Assistant Minister, Egypt)

[Combining Multiple Segmentation Methods for](#)
> Sultan Aljahdali (Taif University, Saudi Arabia)

[Metrics Applied to Aspect Oriented Design using UML Profiles](#)

Narayan Debnath (Winona State University, USA); Daniel Riesco (Universidad Nocional de San Luis, Argentina); German Montejano (Universidad Nocional de San Luis, Argentina)

An Interoperability Approach Based on Asynchronous Replication Among Distributed Internet Databases

Mario Dantas (UFSC, Brazil); Douglas Macedo (Federal University of Santa Catarina, Brazil)

Data Communications I
Chair: Mohamed Faten Zhani (UQAM-Canada, ENSI-Tunisia, Canada)
Room: Fes

Model for Polling in Noisy Multihop Systems with Application to PLC and AMR

Josep Selga (University Ramon Llull, Spain)

A New Signal Separation Technique Using Double Referenced System

JBARI ATMAN (university mohamed V, Morocco); Abdellah Adib (institut scientifique, Morocco); Driss Aboutajdine (GSCM_LRIT Mohammed V-agdal University, Morocco)

A Graph Theory Based Scheduling algorithm For MIMO-CDMA sytstem Using Zero Forcing Beamforming

Elmahdi Driouch (Universite du Quebec à Montreal, Canada); Wessam Ajib (Universite de Quebec a Montreal, Canada)

Performance Analysis for Resource Coordination in a High-density Wireless Environment

LI Zheng (University of Technology, Sydney, Australia); Doan Hoang (University of Technology, Sydney, Australia)

MC-CDMA Multiuser Detection Using a Hybrid Immune Clonal Selection Algorithm with Hopfield Neural Network in Fading Channels

Binbin Xu (Beijing Institute of Technology, P.R. China); Jianping An (Beijing Institute of Technology, P.R. China); Zhongxia He (Beijing Institute of Technology, P.R. China)

Software & Applications
Chair: Mohamed El Ghami (University of Bergen, Norway)
Room: Ouarzazate

Formal Specification of a Particular Banking Domain with RAISE Specification

Mohammad Nami (Shahid Beheshti University, Iran); Abbas Malekpour (University Of Rostock, Germany)

SSMS - A Secure SMS Messaging Protocol for the M-Payment Systems

Mohsen Toorani (Iran University of Science and Technology, Iran); Ali Asghar Beheshti (Iran University of Science and Technology, Iran)

Primal-Dual Algorithm for Linear Optimization Problems Based on a New Class of Kernel Functions

Mohamed El Ghami (University of Bergen, Norway); Ivan Ivanov (Delft University of Technology, The Netherlands); Hans Melissen (Delft University of Technology, The

Netherlands); Cornelis Roos (Delft University of Technology, The Netherlands); Trond Steihaug (University of Bergen, Norway)

[Variability Modeling for Business Component Customization](#)

Rajaa Saidi (Mohammed V-Agdal University, Morocco); Mounia Fredj (L@GI, Al Qualsadi Team, ENSIAS, Morocco); Salma Mouline (Gscm_Lrit, Morocco); Dominique Rieu (Lig-Sigma, France); Agnes Front (Lig-Sigma, France)

[Efficient Sorting Algorithms for the Cell Broadband Engine](#)

Sanguthevar Rajasekaran (University of Connecticut, USA); Reda Ammar (University of Connecticut, USA)

Tuesday, July 8, 4:30 PM - 6:00 PM

Mobility II
Chair: Jad El-Najjar (Concordia University, Canada)
Room: Agadir

[How Node Mobility Affects k-hop Cluster Quality in Mobile Ad Hoc Networks: a Quantitative Evaluation](#)
> Paolo Bellavista (University of Bologna, Italy); Eugenio Magistretti (Rice University, USA)

[Implementation and Experimental Evaluation of a Fast Local Mobility Protocol](#)
> Susana Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal, Portugal)

[An IMS Vertical Handoff Solution to Dynamically Adapt Mobile Multimedia Services](#)
> Paolo Bellavista (University of Bologna, Italy); Antonio Corradi (University of Bologna, Italy); Luca Foschini (University of Bologna, Italy)

[Performance Testing of Mobile IPv6 Protocol](#)
> Wang Huiming (Tsinghua University, P.R. China); Xingang Shi (Tsinghua University, P.R. China); Zhiliang Wang (Tsinghua University, P.R. China); Yin Xia (Tsinghua University, P.R. China); Jianping Wu (Tsinghua University, P.R. China)

Network Management
Chair: Reza Peyrovian (AT&T, USA)
Room: Erfoud

[Measuring and Visualizing Interdomain Routing Dynamics with BGPATH](#)
> Luca Cittadini (Roma Tre University, Italy); Tiziana Refice (Roma Tre University, Italy); Alessio Campisano (Roma Tre University, Italy); Giuseppe Di Battista (Roma Tre University, Italy); Claudio Sasso (Roma Tre University, Italy)

[Distributed Fault Localization for Multi-Domain All-Optical Networks with Partial Power Monitoring](#)
> Mazen Khair (University of Ottawa, Canada); Jun Zheng (University of Ottawa, Canada); Hussein Mouftah (University of Ottawa, Canada)

[Design and Evaluation of a P2MP MPLS-based Hierarchical Service Management System](#)
> Kenji Kumaki (KDDI R&D Labs., Japan); Kenichi Nagami (Intec Netcore Inc., Japan); Ikuo Nakagawa (Intec Netcore Inc., Japan); Tomohiko Ogishi (KDDI R&D Lab., Japan); Shigehiro Ano (KDDI R&D Laboratories, Japan)

[A Flexible Network Monitoring Tool based on a Data Stream Management System](#)
> Natascha Ligocki (Universidade Federal do Paraná, Brazil); Christian Lyra (Universidade Federal do Paraná, Brazil); Carmem Hara (Universidade Federal do Paraná, Brazil)

[Using Visualization Techniques for SNMP Traffic Analyses](#)
> Ewerton Salvador (UFRGS, Brazil); Lisandro Granville (Federal University of Rio Grande do Sul, Brazil)

Data Communications II
Chair: Abdallah Shami (The University of Western Ontario, Canada)
Room: Fes

[Blind MIMO Deconvolution Of Any Source Distributions Via High-Order](#)
> Manal Taoufiki (university Mohamed V, Morocco); Abdellah Adib (institut scientifique, Morocco); Driss Aboutajdine (GSCM_LRIT Mohammed V-agdal University, Morocco); Saad Biaz (Auburn University, USA)

[Investigation on folded Patch Antenna for Cellular Applications](#)
> Adnane LATIF (National School of Sciences Applied, University Abdelemalek Essaadi, Tangier, Morocco); Rachid Hilal (University Cadi Ayyad, Morocco); Abdellah Ait Ouahman (University Cadi Ayyad, Morocco)

[Comparison of CDMA Tele-traffic Models](#)
> Samad Kolahi (Unitec Institute of Technology, New Zealand)

Document Retrieval
Chair: Hichem Frigui (University of Louisville, USA)
Room: Ouarzazate

[A Novel Transliteration Technique in English-Arabic Cross Language Information Retrieval](#)
> Bellaachia Abdelghani (George Washington University, USA); Ghita Amor-Tijani (George Washington University, USA)

[Multi-word term indexing for Arabic document retrieval](#)
> SIHAM Boulaknadel (university mohamed V rabat, Morocco); Beatrice Daille (LINA, France); Driss Aboutajdine (GSCM_LRIT Mohammed V-agdal University, Morocco)

[OOV Words in an English-Arabic CLIR System](#)
> Bellaachia Abdelghani (George Washington University, USA); Ghita Amor-Tijani (George Washington University, USA)

Wednesday, July 9, 10:15 AM - 12:00 PM

Quality of Service I
Chair: Bert-Jan van Beijnum (University of Twente, The Netherlands)
Room: Agadir

A Stateless Architectural Approach to Inter-domain QoS
>Vítor Jesus (Institute of Telecommunications, Portugal); Rui Aguiar (University of Aveiro, Portugal); Peter Steenkiste (Carnegie Mellon University, USA)

Analysis of the EDCA access mechanism for an IEEE 802.11e-compatible wireless LAN
>Jose Gallardo (CICESE Research Center, Mexico); Sarai Cruz (CICESE Research Center, Mexico); Dimitrios Makrakis (University of Ottawa, Canada); Abdallah Shami (The University of Western Ontario, Canada)

A Vendor-Independent Resource Control Framework for WiMAX
>Pedro Neves (Portugal Telecom Inovação, Portugal); Tuomas Nissilä (VTT Technical Research Centre of Finland, Finland); Telmo Pereira (IT-Aveiro, Portugal); Ilkka Harjula (VTT Technical Research Centre of Finland, Finland); João Monteiro (IT-Aveiro, Portugal); Kostas Pentikousis (VTT Technical Research Centre of Finland, Finland); Susana Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal, Portugal); Francisco Fontes (Portugal Telecom Inovacao, Portugal)

Distributed Quality-of-Service Routing of Best Constrained Shortest Paths.
>Abdelhamid Mellouk (University Paris XII, France)

Routing I
Chair: Shie-Yuan Wang (National Chiao Tung University, Taiwan)
Room: Erfoud

Relaxed Min-Augmented Range Trees for the Representation of Dynamic IP Router Tables
>Christine Maindorfer (Albert-Ludwigs-Universitaet Freiburg, Germany); Bettina Bär (Albert-Ludwigs-Universitaet Freiburg, Germany); Thomas Ottmann (Albert-Ludwigs-Universitaet Freiburg, Germany)

Bypass: Providing Secure DHT Routing through Bypassing Malicious Peers
>Marc Artigas (Rovira i Virgili University, Spain); Pedro Garcia-Lopez (University Rovira i Virgili, Spain); Antonio Gomez-Skarmeta (University of Murcia, Spain)

A Partially Buffered Crossbar Packet Switching Architecture and Its Scheduling
>Lotfi Mhamdi (Delft University of Technology, The Netherlands)

Sensor Networks I
Chair: Hussein Mouftah (University of Ottawa, Canada)
Room: Fes

Exploiting the Cloning Capability of Mobile Agents for Cost-Effective Data Fusion in Wireless Sensor Networks

Aristides Mpitziopoulos (University of the Aegean, Greece); Damianos Gavalas (University of the Aegean, Greece); Charalampos Konstantopoulos (University of Patras, Greece); Grammati Pantziou (Technological Educational Institution of Athens, Greece)

On the self-healing properties of an extremely low power indoor metering network

Nicola Altan (University of Duisburg-Essen, Germany); Erwin Rathgeb (Universität Duisburg-Essen, Germany)

EATA: Effectiveness based Aggregation Time Allocation Algorithm for Wireless Sensor Networks

Wei Huangfu (Institute of Software, Chinese Academy of Science, P.R. China); Yan LIU (Peking University, P.R. China); Bin Duan (Institute of Software, Chinese Academy of Sciences, P.R. China); Limin Sun (Institute of Software, Chinese Academy of Sciences, P.R. China); Canfeng Chen (Nokia Research Center, P.R. China); Jian Ma (Nokia Research Center, P.R. China)

Image Processing
Chair: Fadoua Ataa Allah (University Mohamed V - Agdal, Morocco)
Room: Ouarzazate

A New Approach of 3D Watermarking Based on Image Segmentation

Saoussen Ben Jabra (Sciences University of Tunis, Tunisia); Zagrouba Ezzeddine (ISI, Tunisia)

A Robust Digital Image Watermarking Method Using Dual Tree Complex Wavelet Transform

Samira Mabtoul (Faculty of Sciences, Morocco); Ibn Elhaj Elhassane (National Institute of Post and Telecommunications (INPT) Rabat-Morocco, Morocco); Driss Aboutajdine (GSCM_LRIT Mohammed V-agdal University, Morocco)

Using The Maximum Mutual Information Criterion To Textural Feature Selection For Satellite Image Classification

Mounir Ait Kerroum (Faculty of Sciences, Mohamed V-Agdal University, Morocco); Ahmed Hammouch (Faculty of Sciences, Mohamed V-Agdal University, Morocco); Driss Aboutajdine (GSCM_LRIT Mohammed V-agdal University, Morocco); Bellaachia Abdelghani (George Washington University, USA)

Automatic color Face tracking using gray information

Leila Essannouni (Fsr, Morocco); El hassane Ibn Elhaj (INPT, Morocco); Driss Aboutajdine (FSr, Morocco)

Wednesday, July 9, 2:15 PM - 4:00 PM

Quality of Service II
Chair: Rouzbeh Razavi (University of Essex, United Kingdom)
Room: Agadir

Deterministic Service on IEEE 802.11-like Networks
> Mario Baldi (Politecnico di Torino, Italy); Marco Papa Manzillo (Politecnico di Torino, Italy)

QoS-aware Application Layer Multicast
> Bin Rong (RMIT University, Australia); Ibrahim Khalil (Faculty member, RMIT University, Australia); Zahir Tari (RMIT University, Australia)

Wavelet-based Geometry Coding for 3D Mesh Using Space Frequency Quantization
> Walaa Sheta (Informatic Research Institute, MuCSAT, Egypt)

Robustness Study of MBAC Algorithms
> Anne Nevin (Norwegian University of Science and Technology, Norway); Yuming Jiang (Norwegian University of Science and Technology (NTNU), Norway); Peder Emstad (Norwegian University of Science and Technology, Norway)

Routing II
Chair: João Paulo Barraca (University of Aveiro, Portugal)
Room: Erfoud

Flooding Zone Initialization Protocol (FZIP): Enabling Efficient Multimedia Diffusion for Multi-Hop Wireless Networks
> Tarik Elamsy (University of Windsor, Canada); Randa El-Marakby (University of Windsor, Canada)

Measuring Network Performance of Swarm Power Aware Routing Protocol for MANETs
> Ahmed Nagy (American University in Cairo, Egypt)

A Reliability Aware Flooding Algorithm (RAFA) in Wireless Multi-hop Networks
> Youndo Lee (Seoul National University, Korea); YoonBo Shim (Seoul National University, Korea); Yanghee Choi (Seoul National University, Korea); Taekyoung Kwon (Seoul National University, Korea)

Sensor Networks II
Chair: Luca Foschini (University of Bologna, Italy)
Room: Fes

A spatial extension of TinyDB for wireless sensor networks
> Luigi Pomante (University of L'Aquila, Italy); Paolino Di Felice (University of L'aquila, Italy); Massimo Ianni (University of L'Aquila, Italy)

A Reliable Synchronous Transportation Protocol for Wireless Image Sensor Networks

Azzedine Boukerche (Univ. of Ottawa, Canada); Yan Du (University of Ottawa, Canada); Jing Feng (University of Ottawa, Canada); Richard Pazzi (University of Ottawa, Canada)

[Broadcast Routing in Wireless Sensor Networks with Dynamic Power Management](#)
Paulo Sausen (University UNIJUI, Brazil); Marco Spohn (Federal University of Campina Grande, Brazil); Angelo Perkusich (Federal University of Campina Grande, Brazil)

[Data Collection in Sensor Networks with Data Mules: an Integrated Simulation Analysis](#)
Giuseppe Anastasi (University of Pisa, Italy); Marco Conti (IIT-CNR, Italy); Mario Di Francesco (University of Pisa, Italy)

Systems
Chair: Carmem Hara (Universidade Federal do Paraná, Brazil)
Room: Ouarzazate

[A New Approach to Content-based File Type Detection](#)
Mohsen Toorani (Iran University of Science and Technology, Iran); Mehdi Chehel Amirani (Iran University of Science and Technology (IUST), Iran); Ali Asghar Beheshti (Iran University of Science and Technology, Iran)

[JaDE: A JXTA Support for Distributed Virtual Environments](#)
Laura Ricci (University of Pisa, Italy); Luca Genovali (IMT, Italy)

[Transactional Agents for Pervasive Computing](#)
Machigar Ongtang (Pennsylvania State University, USA); Ali Hurson (Missouri University of Science and Technology, USA); Yu Jiao (Oak Ridge National Laboratory, USA)

Wednesday, July 9, 4:30 PM - 6:00 PM

VoIP, Multicast, and Load Balancing
Chair:
Room: Agadir

[Cooperative Load Balancing in IEEE 802.11 Networks with Cell Breathing](#)
> Eduard Garcia Villegas (Technical University of Catalonia (UPC), Spain); Rafael Vidal (Technical University of Catalonia (UPC), Spain); Josep Paradells (UPC, Spain)

[ROHC and Aggregated VoIP over Fixed WiMAX: An Empirical Evaluation](#)
> Esa Piri (VTT Technical Research Centre of Finland, Finland); Jarno Pinola (VTT Technical Research Centre of Finland, Finland); Frerk Fitzek (Hamburg University of Technology, Germany); Kostas Pentikousis (VTT Technical Research Centre of Finland, Finland)

[Efficient Failover and Load Balancing for Dependable SIP Proxy Servers](#)
> Yun-Jung Cheng (National Chiao Tung University, Taiwan); Kuochen Wang (National Chiao Tung University, Taiwan); Rong-Hong Jan (National Chiao Tung University, Taiwan); Chien Chen (National Chiao Tung University, Taiwan, Taiwan); Chia-Yuan Huang (Industrial Technology Research Institute, Taiwan)

Sensor Networks III
Chair: Jian Ma (Nokia Research Center, P.R. China)
Room: Fes

[Underwater Wireless Hybrid Sensor Networks](#)
> Kashif Ali (Queen's University, Canada); Hossam Hassanein (Queen's University, Canada)

[Efficient Deployment of Surface-Level Gateways in Underwater Sensor Networks](#)
> Saleh Ibrahim (University of Connecticut, USA); Jun-Hong Cui (University of Connecticut, USA); Reda Ammar (University of Connecticut, USA)

[Enlightness: An Enhanced and Lightweight Algorithm for Time-Space Localization in Wireless Sensor Networks](#)
> Azzedine Boukerche (Univ. of Ottawa, Canada); Horacio Oliveira (Federal University of Amazonas, Brazil); Eduardo Nakamura (FUCAPI - Research and Technological Innovation Center, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)

[AT-Angle: A Distributed Method for Localization using Angles in Sensor Networks](#)
> Abderrahim Benslimane (University of Avignon, France); Clément Saad (Université Montpellier 2 - LIRMM, France)