

# ISCC 2004 – Final Technical Program

## Agent Technology (5 papers) – Session 1

1568925145	The Construction of A Novel Agent Fault-Tolerant Migration Model	Yichuan Jiang (Fudan University), Zhengyou Xia (NanJing University of Aeronautics and Astronautics), Yiping Zhong (Fudan University), Shiyong Zhang (Fudan University)
1568926301	Adaptive Applications of Intelligent Agents	Ibrahim Imam (Arab Academy for Science and Technology)
1568926867	The Performance Server: Rational server selection for mobile agents	Carsten Pils (RWTH Aachen University), Klaus Deißner (RWTH Aachen University), Stefan Diepolder (RWTH Aachen University), Jan Kritzner (RWTH Aachen University)
1568926501	Agent-Based Autonomous Information Services Integration and Allocation to Achieve High Response and Low Cost in Distributed Information Service System	Xiaodong Lu (Tokyo Institute of Technology), K. Mori (Tokyo Institute of Technology)
1568926574	Agent Co-ordination in the Mobile Agent P2P Architecture for Supporting Mobile Devices in a Gnutella File-Sharing Network	Tim Hu (University of New South Wales), Binh Thai (University of Western Sydney), Aruna Sereviratne (University of NSW)

## Web Services and E-Commerce (5 papers) – Session 2

1568926601	A Workflow-based Dynamic Scheduling Approach for Web Services Platforms	Zahir Tari (RMIT University)
1568926580	Enabling Web Services: Towards Service Grids	Dionisis Adamopoulos (University of Piraeus), Constantine Papandreou ( )
1568926995	Integrating Web Services into Map Image Applications	Shengru Tu (University of New Orleans)
1568925147	A New Efficient Micropayment Scheme based on Probabilistic Polling	Lang Weimin (Huazhong University of Science and Technology, Wuhan, China)
1568925584	a performance study on Internet service provider mail servers	Jun Wang (University of Nebraska Lincoln)

## Resource Allocation in Distributed Computing Systems (5 papers) – Session 3

1568926491	Scheduling Real Time Parallel Structure on Cluster Computing with Possible Processor failures	Alaa Amin (University of Connecticut), Reda Ammar (University of Connecticut), Ayman Ibrahim (Electronic Research Institute)
1568926762	Reliability Oriented Task Allocation in Heterogeneous Distributed Computing Systems	Gamal Attiya (ESIEE Paris)
1568926774	A Methodology to Compute Task Remaining Execution Time	Sarah Tasneem (University of Connecticut), Reda Ammar (University of Connecticut) Howard Sholl (University of Connecticut)
1568926738	Routing based Workflow for Construction of Distributed Applications	WanJun Huang (University of Trier)
1568927133	Optimized External Scheduling for Fair Service Discrimination	Asser Tantawi (IBM T.J. Watson Research Center)

**Data Mining (5 papers) – Session 4**

1568926863	Functional Networks Training Algorithm for Statistical Pattern Recognition	Emad El-Sebakhy (Cornell University and State University of New York, College at Oneonta)
1568926392	A new Classification Sentence Technique Using Intension Expressions	Kazuhiro Morita (2-1 Minimi Josanjima), El-Sayed Atlam (Tokushima University)
1568925593	A Compact Memory Space of Dynamic Full-Text Search using Bi-Gram Index	El-Sayed Atlam (Tokushima University)
1568925229	Genetic Algorithms Based Optimization of Membership Functions for Fuzzy Weighted Association Rules Mining	Reda Alhajj (University of Calgary)
1568926363	Using Divide-and-Conquer GA Strategy in Fuzzy Data Mining	Tzung-Pei Hong (National University of Kaohsiung), Chun-Hao Chen (I-Shou University), Yu-Lung Wu (I-Shou University), Yeong-Chyi Lee (I-Shou University)

**Database Systems and Applications ( 5 papers) – Session 5**

1568926393	An New E-mail Filtering Technique Using Time Priority Measurement	Yuki Kadoya (2-1 Minimi Josinjima), El-Sayed Atlam (Tokushima University)
1568926739	Discovery of Fuzzy Inclusion Dependencies in Fuzzy Relational Databases	Awadhesh Sharma (Indian Institute of Technology, Kharagpur), A. Goswami (Indian Institute of Technology, Kharagpur), D.K. Gupta (Indian Institute of Technology, Kharagpur)
1568926306	FTS Relational Data Model for Source-aware Fuzzy Relational Multidatabases	Awadhesh Sharma (Indian Institute of Technology, Kharagpur), A. Goswami (Indian Institute of Technology, Kharagpur), D.K. Gupta (Indian Institute of Technology, Kharagpur)
1568926373	Modeling and Analysis of a Multi-level Caching in Distributed Database Systems	Doaa ElZanfaly (Helwan University), Reda Ammar (University of Connecticut), Ahmed Sharaf Eldin (Helwan University)
1568926358	The Use of SQO Rules in DMLs	Ayla Sayli (YILDIZ TECHNICAL UNIVERSITY), Bora Gokce (Yildiz Technical)

**Mobile Ad-Hoc Networks (I): Architectures ( 4 papers) – Session 6**

1568926884	Performance Evaluation of Hybrid Environments with Mobile Gateways	Habib Ammari (Southern Methodist University), Hesham El-Rewini (SMU University)
1568925132	Enhancing the Support of Multi Hopping in an IEEE 802.11 Ad-Hoc Network	Hanem Eladly (Southern Methodist University)
1568926755	Merging and partitioning in ad hoc networks	Maria Fazio (University of Messina), Massimo Villari (University of Messina), Antonio Puliafito (University of Messina)
1568925423	Bluetooth Scatternet Formation for Single-hop Ad Hoc Networks Based on Virtual Positions	Yu Wang (Illinois Institute of Technology), Xiang-Yang Li (Illinois Institute of Technology), Ivan Stojmenovic (University of Ottawa)

**Mobile Ad-Hoc Networks (II): Routing and Resource Allocation ( 6 papers) – Session 7**

1568926659	Achieving MAC Fairness in Wireless Ad-hoc Networks using Adaptive Transmission Control	Zhifei Li (Nanyang Technological University), Sukumar Nandi (Indian Institute of Technology, Guwahati), Anil Gupta ()
1568926941	Achieving Loop-Free Incremental Routing in Ad Hoc Networks	Hari Rangarajan (University of California,Santa Cruz), J.J. Garcia-Luna-Aceves (University of California at Santa Cruz)
1568925586	A Connectionless Approach to Mobile Ad Hoc Networks	Ai Ho (University of Central Florida), Yao Ho (University of Central Florida), Kien Hua (University of Central Florida)
1568926586	Dynamic Survivable Resource Pooling in Mobile Ad Hoc Networks	Mariusz Fecko (Telcordia Technologies, Inc.), Ulas Kozat (University of Maryland at College Park), Sunil Samtani (Telcordia Technologies, Inc.), Umit Uyar (City College of New York), Ibrahim Hokelek (City University of New York)
1568926752	Power Aware Image Transmission in Energy Constrained Wireless Networks	Huaming Wu (Rensselaer Polytechnic Institute), Alhussein Abouzeid (Rensselaer Polytechnic Institute)
1568926324	PatchPSMP: A New Ad Hoc Multicast Protocol	Shaobin Cai (Harbin Institute of Technology, China)

**Sensor Networks ( 6 papers) – Session 8**

1568926951	An Adaptive Coordinated Medium Access Control for Wireless Sensor Networks	Jing Ai (University of Central Florida), Jingfei Kong (University of Central Florida), Damla Turgut (University of Central Florida)
1568926193	Improving the Reliability of Event Reports in Wireless Sensor Networks	Wei Yuan (University of California, Riverside), Srikanth Krishnamurthy (University of California, Riverside), Satish Tripathi (University of California, Riverside)
1568926856	On the Correlated Data Gathering Problem in Wireless Sensor Networks	Jamal Al-Karaki (Iowa State University), Ahmed Kamal (Iowa State University)
1568926946	Reliable Data Delivery in Event-Driven Wireless Sensor Networks	Hari Rangarajan (University of California,Santa Cruz), J.J. Garcia-Luna-Aceves (University of California at Santa Cruz)
1568926647	Solar-aware Clustering in Wireless Sensor Networks	Thiemo Voigt (Swedish Institute of Computer Science), Hartmut Ritter (Freie Universitaet Berlin), Jochen Schiller (FU Berlin), Adam Dunkels (Swedish Institute of Computer Science), Juan Alonso (SICS)
1568926734	WiseMAC: An Ultra Low Power MAC Protocol for Infrastructure Wireless Sensor Networks	Amre El-Hoiydi (CSEM), Jean-Dominique Decotignie (CSEM)

**Optical Communications (4 papers) – Session 9**

1568926678	Linear Program Formulation for Routing Problem in Optical Burst Switching Networks	Esa Hyytiä (University of Helsinki), Laura Nieminen (Helsinki University of Technology)
1568926361	Performance Evaluation of Visible-Light Communication System using White LED Lights	Toshihiko Komine (Keio University), Masao Nakagawa (Keio University)
1568926638	A New Analytical Model for Computing Blocking Probability in Optical Burst Switching Networks	Ayman Kaheel (The University of British Columbia), Hussein Alnuweiri (University of British Columbia), Fayez Gebali (The University of Victoria)
1568926591	All-Optical Logic Circuits Based on the Non-linear Properties of The semiconductor Optical Amplifier	Nema Elfaramawy (Alexandria University), Amira Elsayed (University of Alexandria)

<b>Optical Networking (5 papers) – Session 10</b>			
	1568926922	On the Grooming of Multicast Traffic in WDM Networks	Raza Ul-Mustafa (Iowa State University), Ahmed Kamal (Iowa State University)
	1568926379	On Dynamic Multicast Traffic Grooming In WDM Networks	Ahmad Khalil (CUNY), Chadi Assi (Concordia University), Antonis Hadjiantonis (The Graduate Center of the City University of New York), Georgios Ellinas (CUNY), Mohamed Ali (City University of New York)
	1568926518	Routing in All-Optical Ring Networks Revisited	Stamatis Stefanakos (ETH Zurich), Thomas Erlebach (Swiss Federal Institute of Technology (ETH) Zurich)
	1568926953	Integrated Traffic Grooming in Converged Data-Optical Networks	Nasir Ghani (Tennessee Technological University), Chadi Assi (Concordia University), Abdallah Shami (Lakehead University), Mohamed Ali (City University of New York)
	1568925141	Restoration Techniques and Delay Analysis for Fault Recovery in WDM Networks	Mohammad Ahmadi (Iran Telecommunication Research Center)

<b>Security in Mobile Systems (5 papers) – Session 11</b>			
	1568926129	Optimized Security of WAP Based on Modification of Encryption Algorithm for PKQ Cryptosystem in Mobile Networks	Tamer Barakat (Network Systems Administrator in Olympic-Group corporation.)
	1568926556	Energy-Efficient Placement/Activation Algorithms for Authorization Servers in Sensor Network	Danyang Zhang (University of Alabama)
	1568926409	A Framework for Integrated Internet and Ad Hoc Network Security	Bin Xie (University Of Louisville) Anup Kumar (University Of Louisville)
	1568926461	EDKM: Efficient Distributed Key Management for Mobile Ad Hoc Networks	Ozkan Erdem (Texas Instruments, Inc.)
	1568926920	Fully Distributed IDS for MANET	Ricardo Puttini (University of Brasilia), Rafael de Sousa (University of Brasilia)

<b>Security in Communication Systems (4 papers) – Session 12</b>			
	1568926665	Detecting DDoS attacks with passive measurement based heuristics	Christos Siaterlis (National Technical University of Athens), Basil Maglaris (National Technical University of Athens, Greece)
	1568926570	Randomization: Defense against Low-rate TCP-targeted Denial-of-Service Attacks	Guang Yang (UCLA), Mario Gerla (University of California at Los Angeles), M.Y. Sanadidi (University of California, Los Angeles)
	1568926130	A Denial-of-Service-Resistant IP Traceback Approach	Bao-Tung Wang (Columbia University)
	1568926311	Protecting Integrity and Confidentiality for Data Communication	Fangyong Hou (National University of Defense Technology)

<b>Data Security Policies (6 papers) – Session 13</b>			
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1568925635	A2Cast: an Adaptive source Authentication protocol for multiCAST streams	Yacine Challal (University of Technology of Compiègne, Heudiasyc lab.), Hatem Bettahar (Université de Technologie - Compiègne), Abdelmadjid Bouabdallah (Université de Technologie - Compiègne)
1568925153	An Access Control Policy for Active networks	Zhengyou Xia (Nanjing University of Aeronautics and Astronautics), Yichuan Jiang (Fudan University), Shiyong Zhang (Fudan University), Yiping Zhong (Fudan University)
1568925883	Quantum m-out-of-n Oblivious Transfer	Zhide Chen (University of Fudan)
1568925136	Provably Secure Entity Authentication-The Three Party Case	Ali Allam (University of Helwan)
1568926876	Revocation Invocation for Accountable Anonymous PKI Certificate Trees	Delia Critchlow (University of Manchester), Ning Zhang (University of Manchester)
1568926881	A WSDL Security Extension for IP sec	Cassio Kropiwiec (Pontifícia Universidade Católica do Prana), Edgard Jamhour (Pontifícia Universidade Católica do Prana), Carlos Maziero (Pontifícia Universidade Católica do Prana),

### Security and Cryptography (6 papers) – Session 14

1568925552	A Secure Proxy Signature Protocol for Agent-Based M-Commerce Applications	Omaima Bamasak (University of Manchester), Ning Zhang (University of Manchester)
1568926614	An Identity-based Proxy Blind Signature Scheme	Lang Weimin (Huazhong University of Science and Technology, Wuhan, China)
1568926235	A Secure and Fair DSA-based Signature Exchange Protocol	Aleksandra Nenadic (University of Manchester), Ning Zhang (University of Manchester), Stephen Barton (University of Manchester)
1568926613	Finding Suitable Differential Characteristics for Block Ciphers with Ant Colony Technique	Abbas Ghaemi Bafghi (Amirkabir University of Technology), Babak Sadeghiyan (Amirkabir University of Technology)
1568926345	An Identity-based Proxy Ring Signature Scheme	Lang Weimin (Huazhong University of Science and Technology, Wuhan, China)
1568926745	High Capacity Image Steganography using Wavelet-Based Fusion	Amal Khalifa (Ain Shams University, Cairo)

### Resource Allocation in Wireless Networks (5 papers) – Session 15

1568926940	Downlink Resource Allocation for Delay Constraint Data Traffic in Heterogeneous Cellular CDMA Networks	Mahdi Shabany (University of Toronto)
1568926942	Joint Optimum Rate Allocation and Routing Scheme in Downlink Multi-hop Cellular CDMA Systems	Mahdi Shabany (University of Toronto)
1568926512	Adaptive Multimedia Traffic Multiplexing for Dedicated Channels in the UMTS System	José-Ramón Gallego (University of Zaragoza), Angela Hernández-Solana (University of Zaragoza), María Canales (University of Zaragoza), Antonio Valdovinos (University of Zaragoza)
1568926600	An Adaptive Call Admission Policy for Broadband Multi-Services Mobile Wireless Networks Using Stochastic Control	Gan Liu (Huazhong University of Science and Technology, and Hubei University)
1568926457	Resource Reservation in Mobile Wireless Networks	Dario Bruneo (University of Messina), Maurizio Paone (University of Messina), Luca Paladina (University of Messina), Antonio Puliafito (University of Messina)

### Wireless LANs and Hot Spot Communications (5 papers) – Session 16

1568926533	Experimental Analysis of an Application-independent Energy Management Scheme for Wi-Fi Hotspots	Giuseppe Anastasi (Univ. of Pisa, EE dept, Italy), Marco Conti (IIT Institute - CNR Pisa), Enrico Gregori (CNR-IIT), Andrea Passarella (UNIVERSITY OF PISA)
1568926697	A Multiplex-Multicast Scheme that Improves System Capacity of Voice-over-IP on Wireless LAN by 100%	Wei Wang (The Chinese University of Hong Kong), Liew Soung Chang (Chinese University of Hong Kong), Qixiang Pang (The Chinese University of Hong Kong), Victor O. K. Li (University of Hong Kong)
1568926505	Enhanced Service Differentiation Extensions for the IEEE 802.11a Wireless Network	Seongkwan Kim (Korea University), Sangwook Kang (Korea University)
1568924886	Distributed and Centralized Algorithms for Large-Scale IEEE 802.11b Infrastructure Planning	Enrique Costa-Montenegro (Universidad de Vigo), Francisco Castano (Universidad de Vigo), Ubaldo García-Palomares (Universidad de Vigo), Manuel Vilas-Paz (Universidad de Vigo), Pedro Rodríguez-Hernández (Universidad de Vigo)
1568926622	Improving Wireless Connectivity for Mobile Computing Environments	Zhe Guang Zhou (The University of New South Wales), Aruna Seneviratne (University of New South Wales)

### QoS Provisioning in Wireless and Mobile Networks (5 papers) – Session 17

1568926792	MUM: a Middleware for the Provisioning of Continuous Services to Mobile Users	Paolo Bellavista (Università degli Studi di Bologna), A. Corradi (Univ of Bologna), Luca Foschini (University of Bologna)
1568926806	Mobility Management for Multicast Sessions in a UMTS-IP Converged Environment	Georgios Leoleis (NTUA), Lila Dimopoulou (NTUA), Vaggelis Nikas (NTUA), Vakis Venieris (NTUA)
1568926492	Performance Analysis of a Hybrid Push-Pull Algorithm with QoS Adaptations in Wireless Networks	Azzedine Boukerche (Univ. of Ottawa)
1568926645	Cooperative Location Management Method in Next Generation Cellular Networks	Seyyed Mohammad Saeed Masajedian (Ferdowsi University of Mashad)
1568926436	A QoS Management Middleware based on Mobility Prediction for Multimedia Service Continuity in the Wireless Internet	Paolo Bellavista (Università degli Studi di Bologna), A. Corradi (Univ of Bologna)

### Performance and Capacity Analysis in Wireless Systems (6 papers) – Session 18

1568926848	Improving Wireless Link Throughput via Interleaved FEC	Ling-Jyh Chen (UCLA), Tony Sun (UCLA), M.Y. Sanadidi (UCLA), Mario Gerla (UCLA)
1568926325	G-Snoop: Enhancing TCP Performance over Wireless Networks	Kui-Fai Leung (The University of HongKong), Kwan Yeung (University of Hong Kong)
1568926326	TCP-Swift: An End-Host Enhancement Scheme for TCP over Satellite IP Networks	Kui-Fai Leung (The University of HongKong), Kwan Yeung (University of Hong Kong)
1568926531	An Efficient Fault-Tolerant Multicast Approach for Wireless Mobile Systems	Jenn-Wei Lin (Fu Jen Catholic University, Taiwan, R.O.C)
1568926607	Base Station Assisted Search Approach for Mitigation of Pilot Pollution Interference	Anup Kumar (University Of Louisville), Mostafa El-Said (Penn State University), Adel Elmaghraby (University of Louisville)
1568926653	Wireless Sporadic Communication Protocol for Supporting Cluster-to-Base Station Communication	Chikashi Kato (Tokyo Denki University), Sayaka Harada (Tokyo Denki University), Hiroaki Higaki (Tokyo Denki University)

**Signal Processing (5 papers) – Session 19**

1568925447	DFT based Transceivers with Windowing	Yuan-Pei Lin (National Chiao Tung University), See-May Phoong (National Taiwan University)
1568925009	Recognizing Emotions For The Audio-Visual Document Indexing	Xuan Hung Le (Universite Joseph Fourier - Grenoble 1)
1568925134	Accelerating fractal image compression by domain pool reduction, adaptive partitioning and structural block classification	Aoued Boukelif (Universirty of SBA)
1568925696	Design of Odd-Periodic Complementary Binary Signal Set	Hong Wen (School of Computer and Communication Engineering,) Fei Hu (School of Computer and Communication Engineering,) Fan Jin (School of Computer and Communication Engineering,)
1568926472	Semiblind Estimation of Time Varying STBC-OFDM Channels using Kalman Filter and CMA	Mohamed Hassan (University of Newcastle upon Tyne), Bayan Sharif (University of Newcastle Upon Tyne), Wai Lok Woo (University of Newcastle upon Tyne), Shihab Jimaa (Etisalat College of Engineering)

**Communication Systems (5 papers) – Session 20**

1568926782	Interleaving Harmonic Broadcasting and Receiving Scheme with Loss-Anticipation Delivery	Hung-Chang Yang (National Central University)
1568924554	A Heuristic Approach to Optimization of the Decision-Directed Maximum-Likelihood Feedback Carrier Phase Error Detection Algorithm	Reza Danesfahani (University of Kashan), Tony Jeans (Surrey University)
1568926657	Nonlinear Space-Time Multiuser Detector for Non-Gaussian Channels	Adel Mansur Hmidat (University of Newcastle upon Tyne), Bayan Sharif (University of Newcastle Upon Tyne), Wai Lok Woo (University of Newcastle upon Tyne), Shihab Jimaa (Etisalat College of Engineering)
1568926550	Distortion-optimized FEC for Unequal Error Protection in MPEG-4 Video Delivery	Imed Bouazizi (University of Aachen), Mesut Günes (University of Aachen)
1568926819	Optical CDMA Protocol with Selective Retransmission	Mohamed Mohamed (Integrated Thebes Academy for Science)

**Channel Fading and Modeling in Wireless Communications (6 papers) – Session 21**

1568926447	Performance Analyses of DPSK-FFHSS and DPSK-FFH-SSMA Systems over Nakagami Fading Channels	Chaiyaporn Khemapatapan (Chalalongkorn University), Watit Benjapolakul (Chulalongkorn University)
1568925453	Modeling Ricean Fading Channel Under Isotropic and Non-Isotropic Scattering Environment	Prachee Sharma (Indian Institute of Science)
1568926730	Evaluating and Improving Bluetooth Piconet Performance over Nakagami-m Fading Channels	Marcelo Pellenz (Pontifical Catholic University of Paraná), João Kleinschmidt (Pontifical Catholic University of Paraná), Luiz A. de Paula Lima Jr. (Pontifical Catholic University of Paraná)
1568926190	Closed Form Results for the BER of Maximal Ratio Combining with Channel Estimation Errors in Ricean Fading Channels	Lingzhi Cao (University of Alberta), Norman C Beaulieu (University of Alberta)
1568923298	Adaptive LDPC for Rayleigh Fading Channel	Yuling Zhang (Shandong University)
1568926509	Generalized Regression Neural Network Prediction Model for Indoor Environment	Ileana Popescu (National Technical University of Athens)

**Mobile Communications (6 papers) – Session 22**

1568926044	Progressive Time Series Visualization in a Mobile Environment	Tak-Chung Fu (The Hong Kong Polytechnic University)
1568923182	A Fast convergent Scheme for the Doppler shift estimation in Mobile Communication Systems	Hua Jingyu (SEU)
1568926221	MDP-based OVSF Code Assignment Scheme and Call Admission Control for Wideband-CDMA Communications	Min-Xiou Chen (National Chung Cheng University), Ben-Jye Chang (Chaoyang University of Technology), Ren-Hung Hwang (National Chung-Cheng University)
1568926797	A Baseband Receiver Architecture for UMTS-WLAN Interworking Applications	Lasse Harju (Tampere University of Technology), Jari Nurmi (Tampere University of Technology)
1568925634	A Novel Multi-hop Macro-diversity for Wireless Cellular Networks	Weijun Cheng (Beijing Univeraity of Posts and Telecommunications), Jiandong Hu (Beijing University of Posts & Telecommunications)
1568926690	Path loss model for TETRA networks in metropolitan areas	Nikolaos Rittas (NTUA), Avraam Asimakopoulos (NTUA), Dimitrios Xenikos (Hellinic Telecommunications Organization), Philip Constantinou (NTUA), Panagiotis Polydoros (NTUA)

### Wireless Communications (6 papers) – Session 23

1568926431	Capacity of M-ary PAM Impulse Radio with Various Derivatives of Gaussian Pulse Subject to FCC Spectral Masks	Tao Wang (Zhejiang University), Yong Wang (Zhejiang Univ.), Kangsheng Chen (Zhejiang Univ.)
1568926496	Reverse Link Performance Improvement for Dynamic Parameter Controlled OFDM Using Alamouti Coded Heterogeneous Polarization Antennas	C.-J. Ahn (Communication Research Laboratory), Yukiyoshi Kamio (Communication Research Laboratory), Hiroshi Harada (Communications Research Laboratory)
1568926635	A Novel ICI Cancellation Scheme to Reduce both Frequency Offset and IQ Imbalance Effects in OFDM	Kanagaratnam Sathananthan (Monash University), Chandranath Athaudage (University of Melbourne), Bin Qiu (Monash University)
1568926666	Radio Coverage Measurements into Tunnel with Leaky Section Radiating Cable	Nikolaos Papanikolaou (National Technical University of Athens), Antonis Spanakis (National Technical University of Athens), Dimitrios Apostolakis (National Technical University of Athens), Philip Constantinou (National Technical University of Athens)
1568926845	Design of a New Class of Spreading Sequence Using Chaotic Dynamical Systems for Asynchronous DS-CDMA Applications	Alireza Mirzaee (Amirkabir University of Technology), Hassan Aghaeinia (Amir Kabir University of Technology (Polytechnic of Tehran))
1568926633	PAPR Reduction by Combining Selected Mapping and Selected Spreading Code in MC-CDMA Systems	Supachai Ruangsuthinarupap (Asian Institute of Technology)

### Control and Optimization of Communication Systems (6 papers) – Session 24

1568926271	Extended Framework for Delay-Constrained	Ayse Karaman (Queen's University),
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		Multipoint-to-Multipoint Communication	Hossam Hassanein (Queens University)
1568926554		Oblivious Router Policies and Nash Equilibrium	Vicent Cholvi (Universitat Jaume I)
1568926151		Using Fuzzy-PI Controller in Active Queue Management	Miao Zhang (Tsinghua University), Fengyuan Ren (Tsinghua University), Jianping Wu (Tsinghua University), Ke Xu (Tsinghua University)
1568925731		Design a Robust Controller for Active Queue Management in Large Delay Networks	Fengyuan Ren (Tsinghua University), Chuang Lin (Tsinghua University), Bo Wei (Southern Methodist University)
1568926350		Reserve Price in Progressive Second Price Auctions	Arnaud Delenda (France Telecom R&D), Patrick Maillé (ENST-Bretagne), Bruno Tuffin (IRISA)
1568926923		Providing Soft Bandwidth Guarantees Using Elastic TCP-based Tunnels	Mina Guirguis (Boston University), Azer Bestavros (Boston University), Ibrahim Matta (Boston University), Niky Riga (Boston University), Gali Diamant (Boston University), Yuting Zhang (Boston University)

### Network Modeling and Analysis (6 papers) – Session 25

1568926116		Availability Aware Cost Modeling of Mesh Architectures for Long-Haul Networks	Hakki C. Cankaya (Alcatel, USA)
1568926751		Congestion Analysis during Outage, Congestion Treatment and Outage Recovery	Paolo Lollini (University of Florence, Dip. Sistemi e Informatica), A. Bondavalli (), Felicita Di Giandomenico (ISTI), Stefano Porcarelli (ISTI-CNR)
1568927376		Availability Analysis and Simulation of Shared Mesh Restoration Networks	Hassan Naser (University of Ottawa), Hussein Mouftah (School of Information Technology and Engineering)
1568926832		A Hierarchical Analysis of Access Multiplexers with Multimedia Traffic	Sayeed Ghani (Institute of Business Administration), Mischa Schwartz (Columbia University)
1568925180		Performance Analysis of DBA Scheme with Interleaved Polling Algorithm in an Ethernet PON	Chul Geun Park (Sunmoon University) Ho Suk Jung (Sunmoon University) Dong Hwan Han (Sunmoon University) Yutae Lee (Donggeui University)
1568926321		Modeling the Contention Mechanism of DOCSIS in HFC Networks	Kai-chien Chang (National Taiwan University), Wanjiun Liao (National Taiwan University)

### Service Differentiation (5 papers) – Session 26

1568926663		Service Differentiation at Transport Layer via TCP Westwood Low-Priority (TCPW-LP)	Hideyuki Shimonishi (NEC), M.Y. Sanadidi (University of California, Los Angeles), Mario Gerla (University of California at Los Angeles)
1568926926		Preferential Treatment of SCTP Subflows: Analysis and Simulation	Jianping Zou (CCNY, City University of New York), Umit Uyar (City College of New York), Mariusz Fecko (Telcordia Technologies, Inc.), Sunil Samtani (Telcordia Technologies, Inc.)
1568926829		Admission Control Placement in Differentiated Services Networks	Stylianos Georgoulas (University of Surrey), Panos Trimintzios (University of Surrey), George Pavlou (University of Surrey)
1568926200		End-to-End Jitter Minimization with TCM for Real-Time Multimedia Traffic in DiffServ Networks	Tsang-Ling Sheu (National Sun Yat-Sen University, Kaohsiung, Taiwan)
1568926489		SPLIT: A priority based TCP-friendly video protocol	Naveen Chilamkurti (La Trobe University)

### Routing I (5 papers) – Session 27

1568926213	Optimal Solution of Total Routing Table Size for Hierarchical Networks	Jie Lian (University of Waterloo)
1568925027	A B-tree Dynamic Router Table Design	Sartaj Sahni (University of Florida), Haibin Lu (University of Missouri - Columbia)
1568926519	HCASP: A Hop-Constrained Adaptive Shortest-Path Algorithm for Routing Bandwidth-Guaranteed Tunnels in MPLS Networks	Khaled Elsayed (Cairo University)
1568926590	Integrating Path Computation and Precomputation for QoS Routing	Hanan Elazhary (University Of Connecticut)
1568925026	Dynamic IP Router-Tables Using Highest-Priority Matching	Sartaj Sahni (University of Florida), Haibin Lu (University of Missouri - Columbia)

### Routing II (5 papers) – Session 28

1568926219	Supporting Service Differentiation Through End-to-End QoS Routing	Hossam Hassanein (Queens University)
1568926388	A Limited Path Unicast QoS Routing Algorithm	YanXing Zheng (National University of Defense Technology), Jing Tian (NUDT)
1568926617	Cost Efficient Overflow Routing for Outbound ISP Traffic	Alexander A. Kist (RMIT University), Richard Harris (Royal Melbourne Institute of Technology)
1568926443	Impact of Routing and Traffic Distribution on the Performance of Network Admission Control	Michael Menth (University of Wuerzburg), Stefan Kopf (University of Wuerzburg), Jens Milbrandt (University of Wuerzburg)
1568926215	Generalized Pursuit Learning Algorithms for Shortest Path Routing Tree Computation	Sudip Misra (Carleton University), John Oommen (Carleton University)

### Quality of Service in Communication Networks (4 papers) – Session 29

1568926757	QoS Support for Interactive Communication with DVB/RCS Satellites	Antonio Pietrabissa (Università di Roma), Tiziano Inzerilli (University of Rome "La Sapienza"), Ernesto Impemba (Unv. of Rome "La Sapienza"), Emanuele Paone (Unv. of Rome "La Sapienza"), Giuseppe Tarquini (Unv. of Rome "La Sapienza")
1568926354	Experience Based Admission Control (EBAC)	Michael Menth (University of Wuerzburg), Jens Milbrandt (University of Wuerzburg), Simon Oechsner (University of Wuerzburg)
1568926907	FDDT+: Improving Fairness for Video Transmission over IP Networks	Yan Bai (university of british columbia)
1568926889	Distribution-Free Conservative Bounds for QoS Measures	Jozsef Biro (Budapest University of Technology and Economics), Zalan Heszberger (Technical University of Budapest)

### Quality of Service Provisioning and Reliability (5 papers) – Session 30

1568926784	Theoretical Analysis of Restorability of	Shahram Shah-Heydari (University of Ottawa),
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		Hamiltonian Protection Cycles in Random Mesh Networks	Wail Mardini (University of Ottawa)
	1568926220	Improving The Loss Performance of Random Early Detection Gateway Using Fuzzy Logic Control	Mohammad Hossien Yaghmaee (Ferdowsi University of Mashad)
	1568926655	QoS Estimators for Client-Side Dynamic Server Selection: Limitations and Keys	Javier Lafuente-Martínez (University of Zaragoza), Isabel García-Muñoz (University of Zaragoza), Julián Fernández-Navajas (University of Zaragoza)
	1568926731	Resource Allocation Algorithms for Intra-Domain Quality of Service Provisioning	Eugenia Nikolouzou (National Technical University of Athens), Sotiris Maniatis (National Technical University of Athens), Vakis Venieris (NTUA)
	1568926768	A Capacity Margin for IP Networks with QoS Constraints and Uncertain Demands	Sanaa Sharafeddine (Munich University of Technology), Zaher Dawy (Munich University of Technology)

### **Traffic Engineering and Bandwidth Management (6 papers) – Session 31**

	1568926397	Joint Multifractal Network Traffic Generator and Characteristics Analysis	Jinwu Wei (National Digital Switching System Engineering & Technology R&D Center)
	1568926587	A Novel Lagrangian-relaxation to the Minimum Cost Multicommodity Flow Problem and its Application to OSPF Traffic Engineering	Gabor Retvari (Budapest University of Technology and Economics)
	1568926541	K-Factor Gegenbauer ARMA Process For Network Traffic Simulation	Nayera Sadek (Southern Methodist University), Alireza Khotanzad (Southern Methodist University)
	1568926504	Streaming over EGPRS	Miikka Lundan (Nokia corporation)
	1568926287	Bandwidth Aggregation in Stream Control Transmission Protocol	Ahmed Abd El Al (The City University of New York), Tarek Saadawi (The City University of New York), Myung Lee (The City University of New York)
	1568926407	Lightweight Monitoring of Label Switched Paths for Bandwidth Management	Pere Vila (Universitat de Girona), Jose Marzo (Universitat de Girona), Eusebi Calle Ortega (University of Girona), Liliana Carrillo (University of Girona)

### **Network Architecture and Services (4 papers) – Session 32**

	1568926522	Multi-layer Autonomous Community Overlay Network for Enhancing Communication Delay	Khaled Sayed Ahmed (Tokyo Institute of Technology), Yuji Horikoshi (Tokyo Institute of Technology), Hisayuki Kuriyama (Tokyo Institute of Technology), K. Mori (Tokyo Institute of Technology)
	1568926846	Evaluation of a Scalable Reservation-Based QoS Architecture	Rui Prior (University of Porto), Susana Sargento (University of Porto), Pedro Brandão (University of Porto), Sérgio Crisóstomo (University of Porto)
	1568926664	On the provision of immersive audio communication to massive multi-player online games	Cong Nguyen (University of Wollongong), Farzad Safaei (University of Wollongong), Don Platt (University of Wollongong)
	1568926660	Hybrid Checkpoint Protocol for Cell-Dependent Infrastructured Networks	Masakazu Ono (Tokyo Denki University), Masamitsu Miyazaki (Tokyo Denki University), Hiroaki Higaki (Tokyo Denki University)

### Multicast Routing (5 papers) – Session 33

1568926465	GXcast: Generalized Explicit Multicast Routing Protocol	Ali Boudani (IRISA/INRIA), Alexandre Guitton (IRISA / Université de Rennes I), Bernard Cousin (IRISA)
1568926703	Multi-Objective Optimization Scheme for Dynamic Multicast Groups	Yezid Donoso (Universidad del Norte), Ramon Fabregat Gesa (University of Girona), Jose Marzo (Universitat de Girona)
1568926296	An Effective Heuristic Algorithm for Dynamic Multicast Routing with delay-constrained	Chen Lin (WuHan university)
1568925913	Fast-response Receiver-driven Layered Multicast	Hon Sun Chiu (The University of Hong Kong), Kwan Yeung (University of Hong Kong)
1568926709	Implementation and Performance Evaluation of Multicast Control Protocol	Takeshi Takahashi (Waseda University), Miiikka Tammi (Tampere University of Technology), Heikki Vatiainen (Tampere University of Technology), Rami Lehtonen (TeliaSonera), Jarmo Harju (Tampere University of Technology)

### Multicasting and Applications (6 papers) – Session 34

1568926668	Multicast Synchronous Transfer Protocol. A Complete Study of Packet Delay and Packet Loss Behavior	Pilar Manzanares-Lopez (Technical University of Cartagena), Juancarlos Sanchez-Aarnoutse (Polytechnic University of Cartagena), Jose Juan Sanchez-Manzanares (Polytechnic University of Cartagena), Josemaria Malgosa-Sanahuja (Polytechnic University of Cartagena), Joan Garcia-Haro (Polytechnic University of Cartagena)
1568926476	Multicast Error Control for Multimedia Collaborative Applications	Emad Eldin Mohamed (United Arab Emirates University), Hussein Abdel-Wahab (Old Dominion University)
1568926450	On Robustness in Application-Level Multicast: the Case of HBM	Ayman El-Sayed (University of Menoufia), Vincent Roca (INRIA Rhones Alpes)
1568926714	A Case for Dense-Mode Multicast Support in MPLS	Mozafar Bag-Mohammadi (University of Tehran), Siavash Samadian-Barzoki (University of Tehran), Nasser Yazdani (University of Tehran), Naser Rezaee (University of Tehran)
1568926341	Improving the Stability of Spanning Trees for Application-layer Multicast	Baitao Long (Tsinghua University), Lifeng Sun (Tsinghua University), Wenping Chen (Renmin University of China), Yuzhuo Zhong (Tsinghua University)
1568926735	Evaluation of Flow Control Algorithms for ABR Multipoint Services	Uyen Trang Nguyen (York University)

### Network and Service Management (5 papers) – Session 35

1568926939	Accuracy of Link Capacity Estimates using Passive and Active Approaches with CapProbe	Rohit Kapoor (University of California at Los Angeles), Ling-Jyh Chen (UCLA), M.Y. Sanadidi (University of California, Los Angeles), Mario Gerla (University of California at Los Angeles)
1568924912	An Analytical Study of Object Relocation Strategies for Wireless Environments	Kwong Lai (RMIT University), Zahir Tari (RMIT University), Peter Bertok (RMIT University)
1568926526	Software Application Design Based on Architecture, Reliability and Cost	Swapna Gokhale (University of Connecticut)
1568926742	Provisioning Virtual Active Networks For Dynamic Active Service Deployment	Habib Bakour (ENST Paris)
1568926192	Extension and Implementation of the Almost Guaranteed Dimensioning Strategy in Integrated IP Networks	Sanaa Sharafeddine (Munich University of Technology)

**Distributed System Architecture and Management (5 papers) – Session 36**

1568926277	A middleware-based service for employing resource management algorithms at Distributed Networks and evaluating their performance	Vassilios Stathopoulos (National Technical University of Athens), Vakis Venieris (NTUA)	
1568926924	A Heuristic Buffer Management Scheme for Tree-Based Reliable Multicast	Jinsuk Baek (University of Houston), Jehan-Francois Paris (University of Houston)	
1568926865	An Infrastructure for Runtime Evolution of Software Systems	Antonella Di Stefano (Catania University), Giuseppe Pappalardo (Catania University), Emiliano Tramontana (Catania University)	
1568926903	Experiences in the Implementation of an SNMP-Based High Performance Cluster Management System	Rodrigo Sanger (UFRGS), Clarissa Markezan (UFRGS), Lisandro Zambenedetti Granville (Federal University of Rio Grande do Sul)	
1568924364	Terabit/s Data Communication in Distributed Computer Cluster Networks	Stamatios Kartalopoulos (University of Oklahoma)	