

Program

Friday, December 17

I1: Invited Technical Papers

Architectural Support for Internet Evolution and Innovation

Rudra Dutta (North Carolina State University, USA); Ilija Baldine (RENCI (Renaissance Computing Institute) & UNC Chapel Hill, USA); Anjing Wang (Ericsson, USA); Mohan Iyer (Oracle Corporation, USA); George N. Rouskas (North Carolina State University, USA)

pp. 1-3

Protection Costs of a Fully Connected IP Core Network Over a WDM Ring

Ćiril Rožić (University of Hawaii, USA); Galen Sasaki (University of Hawaii, USA)

pp. 4-6

Silicon-based Devices for Computer Interconnects

Lech Wosinski (Royal Institute of Technology, Sweden); Zhechao Wang (Royal Institute of Technology, Sweden)

pp. 7-9

Green Lightpath Provisioning in Transparent WDM Networks: Pros and Cons

Pawel Wiatr (KTH Royal Institute of Technology, Sweden); Paolo Monti (The Royal Institute of Technology (KTH), Sweden); Lena Wosinska (Royal Institute of Technology KTH, Sweden)

pp. 10-12

Saturday, December 18

S1: High Speed Networks

A Multi-Path Routing Scheme for GMPLS-Controlled WDM Networks

Rabindra Ghimire (University of Arkansas at Little Rock, USA); Seshadri Mohan (University of Arkansas at Little Rock, USA)

pp. 13-15

An Empirical Model of Power Consumption in the NetFPGA Gigabit Router

Arun Vishwanath (University of New South Wales, Australia); Zhi Zhao (University of New South Wales, Australia); Vijay Sivaraman (University of New South Wales, Australia); Craig L Russell (CSIRO, Australia)

pp. 16-18

A Heuristic for Combined Protection of IP Services and Wavelength Services in Optical WDM Networks

Chaitanya S. K. Vadrevu (University of California, Davis, USA); Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy); Chin Guok (Energy Sciences Network, USA); Inder Monga (Energy Sciences Network, USA)

pp. 19-21

Dynamic Circuits with Lightpath Switching over Wavelength Routed Networks

Neal Charbonneau (The MITRE Corporation, USA); Vinod M. Vokkarane (University of Massachusetts Dartmouth, USA)

pp. 22-24

Hybrid All-Optical Networks: Routing and Wavelength Assignment

Shivashis Saha (University of Nebraska-Lincoln, USA); Chandra Nelapatla (University of Nebraska Lincoln, USA); Jitender Singh Deogun (University of Nebraska-Lincoln, USA)

pp. 25-27

Performance Analysis of Dynamic Bandwidth Allocation Algorithms for Long-Reach PONs

Neeharika Jana (Indian Institute of Technology Madras, India); Ganesh Chennimalai Sankaran (Indian Institute of Technology Madras & HCL Cisco Offshore Development Center, India); Krishna M. Sivalingam (Indian Institute of Technology Madras, India); Gerard P. Parr (University of Ulster, United Kingdom)

pp. 28-30

S2: Network Applications

New Link Addition Strategies for Multi-Gateway Small World Wireless Mesh Networks

Aditi Verma (University of Mumbai, India); Chetan Verma (UC San Diego, USA); Bheemarjuna Reddy Tamma (University of California, San Diego, USA); Manoj Bs (Indian Institute of Space Science and Technology & California Institute of Telecommunication and IT, India)

pp. 31-33

IdP proxy for combined authentication based on multiple IdPs

Tadashi Kaji (Hitachi, Ltd., Japan)

pp. 34-36

On Capturing Spatio-temporal Factors in Cognitive Network Channel Selection

Joshal A Daftari (University of California, San Diego, USA); Bheemarjuna Reddy Tamma (University of California, San Diego, USA); Manoj Bs (Indian Institute of Space Science and Technology & California Institute of Telecommunication and IT, India); Ramesh Rao (University of California at San Diego, USA)

pp. 37-39

Symbiotic Computing

Akshay Singh (Yahoo! Software Development Center, India); Ravi Chandra (Yahoo! Software Development Center, India)
pp. 40-42

S3: Core Networks

Evaluation of Post-Fault Restoration Strategies in Multi-Domain Networks

Feng Xu (University of New Mexico, USA); Tamal Dinesh Das (Indian Institute of Technology, Bombay, India); Min Peng (Wuhan University, P.R. China); Nasir Ghani (University of New Mexico, USA)
pp. 43-45

Mixed-Line-Rate (MLR) Optical Network Design with Wavebanding

Sifat Ferdousi (University of California, Davis, USA); Avishek Nag (University of California Davis, USA); Abu Ahmed S. Reaz (University of California, Davis, USA)
pp. 46-48

Alternate Carrier Ethernet Technology - The Omnipresent Ethernet Demonstration

Ashok Verma (IIT Bombay, India); Saurabh Mehta (Indian Institute of Technology, Bombay, India); Ashwin A Gumaste (Indian Institute of Technology, Bombay, India)
pp. 49-51

A Hybrid WDM/TDM PON Architecture Using Wavelength Selective Switches

Goutam Das (University of Ghent & IBBT, Belgium); Bart Lannoo (Ghent University - IBBT, Belgium); Didier Colle (IBBT - Ghent University, Belgium); Mario Pickavet (Ghent University, Belgium); Piet Demeester (Ghent University, Belgium)
pp. 52-54

Constructing Min-cost Single Failure Immune Recovery Trees: Computational Complexity and Approximation Algorithms

Xi Fang (Arizona State University, USA); Dejun Yang (Arizona State University, USA); Guoliang Xue (Arizona State University, USA); Krishnaiyan Thulasiraman (University of Oklahoma, USA)
pp. 55-57

Excess-Capacity-Aware, Shared-Path Protection with Backup Re provisioning in Telecom Mesh Networks

Ferhat Dikbiyik (U. C. Davis, USA); Laxman Sahasrabuddhe (N/A, USA); Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy)
pp. 58-60

PS: Poster Session

Pre-computation Based Heuristic for Inter-Domain QoS Routing

Ahmed Frikha (INRIA/IRISA - University of Rennes 1, France); Samer Lahoud (IRISA, University of Rennes 1, France)

pp. 61-63

Cipher-Text Classification with Data Mining

Pejman Khadivi (Isfahan University of Technology, Iran); Marjan Momtazpour (Isfahan University of Technology, Iran)

pp. 64-66

Xpec: A Cross-Layer Spectrum Assignment in Cognitive Radio Networks

Berk Canberk (Istanbul Technical University, Turkey); Sema Oktug (Istanbul Technical University, Turkey)

pp. 67-69

Particle Swarm Optimization for Optimal Allocation of Wavelength Converters in WDM Optical Networks

Kaushik Chakraborty (Jadavpur University, India); Aweek Chakrabarti (Jadavpur University, India); Aankan Mullick (Jadavpur University, India); Mrinal Kanti Naskar (Jadavpur University, India); Amitava Mukherjee (IBM India Pvt Ltd, Calcutta, India)

pp. 70-72

A Cost-efficient Algorithm for Finding Connected Dominating Sets in Static Wireless Ad Hoc Networks with Obstacles

Abhishek Raj (Tata Consultancy Services Limited, India); Debashis Saha (Indian Institute of Management (IIM)- Calcutta, India); Parthasarathi Dasgupta (Indian Institute of management Calcutta, India)

pp. 73-75

On the Data Services of Secondary User with Primary Exclusive Region

Sumit Kundu (N.I.T Durgapur, India); Sanjay Dhar Roy (National Institute of Technology Durgapur, India)

pp. 76-78

Multiple-Gateway Deployment for Wired/Wireless Converged Access Networks

Ming Xia (Ericsson Research US, USA)

pp. 79-81

Performance evaluation of TCP Reno and Vegas over different routing protocols for MANETs

Ibrahim Tabash (Aligarh Muslim University, India); Nesar Ahmad (A.M.U. Aligarh, India); Salim Beg (Aligarh Muslim University, India)

pp. 82-84

Fiber to the Antenna: A Step towards Multimode Radio Architectures for 4G Mobile Broadband Communications

Georgios Kardaras (Technical University of Denmark, Denmark); Jose Soler (Technical University of Denmark, Denmark); Lukasz Brewka (Technical University of Denmark, Denmark); Lars Dittmann (Technical University of Denmark, Denmark)

pp. 85-87

Adaptive Distance Estimation and Localization in Wireless Networks with Triangle and Ptolemy Inequalities

Pejman Khadivi (Isfahan University of Technology, Iran)
pp. 88-90

Performance of Layered CDMA Wireless Sensor Networks with Space Diversity in Presence of Correlated Interferers

Uma Datta (Central Mechanical Engineering Research Institute, India);
Pradyumna Kumar Sahu (Central Mechanical Engineering Research Institute,
India); Sumit Kundu (N.I.T Durgapur, India)
pp. 91-93

Crosstalk-Aware Anycast Routing and Wavelength Assignment in Optical WDM Networks

Balagangadhar G Bathula (Columbia University, USA); Jeremy Plante
(University of Massachusetts Dartmouth, USA); Vinod M. Vokkarane
(University of Massachusetts Dartmouth, USA)
pp. 94-96

The Reliability of the Interconnection Networks Through Self Generating Disjoint Minimal Cut-Set Method

Pradyumna Tripathy (Silicon Institute of Technology, Bhubaneswar, India);
Ranjan Dash (College of Engineering & Technology, Bhubaneswar, India);
Chitta Tripathy (VSS University of Technology, Burla, India)
pp. 97-99

Adaptive MMSE-MRC Multiuser Detector with Mixed Phase Channel for DS-CDMA System

Mangala Ramrao Gajbhiye (National Institute of Technology, Rourkela, India);
Jitendriya Satapathy (National Institute of Technology, Rourkela, India)
pp. 100-102