

NETWORKS

Thursday, March 17, 2005

14:00 - 15:30 Room 204

NET01: Scheduling

NET01-1: Opportunistic Downlink Scheduling for Multiuser OFDM Systems (invited paper)

Zhi Zhang (Colorado State University, USA), Ying He (University of Maryland, College Park, USA), Edwin K. P. Chong (Colorado State University, USA)

NET01-2: Mobility Assisted Opportunistic Scheduling for Downlink Transmissions in Cellular Data Networks

Syed Hussain Ali (The University of British Columbia, Canada), Victor C. M. Leung (The University of British Columbia, Canada)

NET01-3: An Adaptive Round Robin Scheduler for Head-of-Line-Blocking Problem in Wireless LANs

Bin Jiang Li (The Chinese University of Hong Kong, Hong Kong), Chang Liew Soung (The Chinese University of Hong Kong, Hong Kong)

NET01-4: Improving Wireless Local Area Networks Goodput Through Link Adaptation and Scheduling

Lau-yung Hung (The Hong Kong University of Science and Technology, Hong Kong), Brahim Bensaou (The Hong Kong University of Science and Technology, Hong Kong)

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NET02: Quality of Service

NET02-1: A Statistical Measurement Model for the 3G Networks QoS Evaluation

I. Cotanis (Ericsson NetQual Inc., USA)

NET02-2: QoS-driven Rate Control Strategies for W-CDMA Systems

Tracy Tung (University of Technology, Sydney, Australia), Abbas Jamalipour (University of Sydney, Australia)

NET02-3: Supporting QoS in Wireless MAC by Fuzzy Control

Chao-Lieh Chen (Kun-Shan University of Technology, Taiwan), Po-Chien Hsiao (Kun-Shan University of Technology, Taiwan)

NET02-4: Quality-of-Service Management for IP-based Mobile Networks

Joachim Hillebrand (DoCoMo Laboratories Europe, Germany), Christian Prehofer (DoCoMo Laboratories Europe, Germany), Roland Bless (University of Karlsruhe, Germany), Martina Zitterbart (University of Karlsruhe, Germany)

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NET03: Call Admission Control

NET03-1: A Practical Method for Estimating Performance Metrics of Call Admission Control Schemes in Wireless Mobile Networks

Emre A. Yavuz (The University of British Columbia, Canada), Victor C. M. Leung (The University of British Columbia, Canada)

NET03-2: Adaptive Prioritized Admission over CDMA

Oliver Yu (University of Illinois at Chicago, USA), Emir Saric (University of Illinois at Chicago, USA), Anfei Li (University of Illinois at Chicago, USA)

NET03-3: Admission Control for Realtime Traffic: Improving Performance of Mobile Networks by Operating on Actual Throughput

Andreas Brandt (Humboldt Universität zu Berlin, Germany), Manfred Brandt (Konrad-Zuse-Zentrum für Informationstechnik Berlin, Germany), Stefan Rugel (Siemens AG, Germany), Dietmar Weber (Siemens AG, Germany)

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NET04: Cellular Network Performance

NET04-1: A Statistical Estimation of Average IP Packet Delay in Cellular Data Networks

Hubert Graja (University College Dublin, Ireland), Philip Perry (University College Dublin, Ireland), John Murphy (University College Dublin, Ireland)

NET04-2: Unifying View on Min–Max Fairness and Utility Optimization in Cellular Networks

Holger Boche (Technical University of Berlin, Germany), Marcin Wiczanowski (Technical University of Berlin, Germany), Slawomir Stanczak (Mobile Communications Institute, Germany)

NET04-3: Modeling and Performance Analysis of Future Generation Multimedia Wireless and Mobile Networks Using Smart Antennas

Huazhou Liu (University of Cincinnati, USA), Yong Xu (University of Cincinnati, USA), Qing-An Zeng (University of Cincinnati, USA)

NET04-4: Throughput Optimization in multiCell CDMA Networks

Robert Akl (University of North Texas, USA), Mort Naraghi-Pour (Louisiana State University, USA), Manju Hegde (Ageia Technologies, Inc., USA)

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NET05: Radio Resource Management

NET05-1: Dynamic Downlink OFDM Resource Allocation with Interference Mitigation and Macro Diversity for Multimedia Services in Wireless Cellular Systems (invited paper)

Navid Damji (McGill University, Canada), Tho Le-Ngoc (McGill University, Canada)

NET05-2: Resource Management for Service Providers in Heterogeneous Wireless Networks

Xu Yang (London of University, UK), John Bigham (London of University, UK), Laurie Cuthbert (London of University, UK)

NET05-3: An Efficient Resource Reservation Scheme Based on Gray-Cell in Wireless Mobile Networks

Moonjeong Chang (Ewha Womans University, Korea), Meejeong Lee (Ewha Womans University, Korea), Hyunjeong Lee (University of Nevada, Reno, USA)

NET05-4: Performance Modelling of GSM/GPRS Cells with Different Radio Resource Allocation Strategies

Hamza Dahmouni (France Telecom, France), Bertrand Morin (France Telecom, France), Sandrine Vaton (ENST Bretagne, France)

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NET06: Multimedia over Wireless Networks

NET06-1: Dynamic Resource Allocation for Video Traffic over Time-varying CDMA Wireless Channels

Hai Jiang (University of Waterloo, Canada), Weihua Zhuang (University of Waterloo, Canada), Xuemin Shen (University of Waterloo, Canada)

NET06-2: Efficient Real-Time Video Transmission in OVSF-CDMA System

Jun Xu (University of Waterloo, Canada), Xuemin Shen (University of Waterloo, Canada), Jon W. Mark (University of Waterloo, Canada), Jun Cai (University of Waterloo, Canada)

NET06-3: Predictive Rate Control for Real-Time Video Streaming with Network triggered Handover

Susumu Ishihara (Shizuoka University, Japan), Kenji Koyama (Shizuoka University, Japan), Goh Miyamoto (National Institute of Information and Communications Technology, Japan), Masahiro Kuroda (National Institute of Information and Communications Technology, Japan)

NET06-4: Robust Transmission of JPEG-2000 Images over Peer-to-Peer Mixed Wired and Wireless Links

Ming Zhao (National University of Singapore, Singapore), Thanh M. Le (National University of Singapore, Singapore)

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NET07: Location Management and Paging

NET07-1: Pipeline Paging for Wireless Systems

Yang Xiao (The University of Memphis, USA), Hui Chen (The University of Memphis, USA), Mohsen Guizani (Western Michigan University, USA)

NET07-2: Practical Approach to Optimize Paging Success Rate in CDMA Network

Jey Veerasamy (Samsung Telecommunications America, USA), John Jubin (Samsung Telecommunications America, USA), Sanjay Kodali (Samsung Telecommunications America, USA)

NET07-3: Efficient Location Management for Fast Call Setup

Sanjay Kodali (Samsung Telecommunications America, USA), Jey Veerasamy (Samsung Telecommunications America, USA), John Jubin (Samsung Telecommunications America, USA)

NET07-4: An Intelligent Location Management Strategy for Next Generation Wireless Networks: A Rule Base Approach

Madhubanti Maitra (Jadavpur University, India), Partha S. Bhattacharjee (Calcutta Telephones, India), Debashis Saha (Indian Institute of Management, Calcutta, India), Amitava Mukherjee (Royal Institute of Technology, Sweden)

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NET08: Handoff Management

NET08-1: An Improved Location-based Handover Algorithm for GSM Systems

Rong-Terng Juang (National Taipei University of Technology, Taiwan), Hsin-Piao Lin (National Taipei University of Technology, Taiwan), Ding-Bing Lin (National Taipei University of Technology, Taiwan)

NET08-2: SMART-FRX: A Novel Error-Recovery Scheme to Improve Performance of Mobile SCTP during WLAN to Cellular Forced Vertical Handover

Li Ma (The University of British Columbia, Canada), Fei Yu (The University of British Columbia, Canada), Victor C. M. Leung (The University of British Columbia, Canada)

NET08-3: Active Application oriented Vertical Handoff in Next Generation Wireless Networks

Wen-Tsuen Chen (National Tsing-Hua University, Republic of China), Yen Yuan Shu (National Tsing-Hua University, Republic of China)

NET08-4: Handover Latency Analysis on Mobile Ethernet

Tetsuya Aoyama (Shizuoka University, Japan), Koichi Ishibashi (Mitsubishi Electric Corporation, Japan), Masaki Bandai (Shizuoka University, Japan), Masahiro Kuroda (National Institute of Information and Communications Technology, Japan), Takashi Watanabe (Shizuoka University, Japan)

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NET09: IP Mobility

NET09-1: Mobility Analysis for all-IP Networks (invited paper)

Ramy Farha (University of Toronto, Canada), Alberto Leon-Garcia (University of Toronto, Canada)

NET09-2: Implementation and Evaluation of a Network-controlled Mobility Management Protocol (IP_MM): Performance Evaluation Compared with Mobile IPv6

Katsutoshi Nishida (NTT DoCoMo Inc., Japan), Shin-ichi Isobe (NTT DoCoMo Inc., Japan), Tomohiko Yagyu (NEC Corporation, Japan), Ippei Akiyoshi (NEC Corporation, Japan)

NET09-3: Inter-domain Handover Scheme Based on Forwarding Router Discovery for Mobile IP Networks

Takeshi Takahashi (Waseda University, Japan), Jarmo Harju (Tampere University of Technology, Finland), Koichi Asatani (Kogakuin University, Japan), Hideyoshi Tominaga (Waseda University, Japan)

NET09-4: A Comparative Analysis on Signaling Cost of Mobile IP Regional Registration with Paging Support

Tanapong Pongkong (Chulalongkorn University, Thailand), Watit Benjapolakul (Chulalongkorn University, Thailand)

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NET10: IPv6 Mobility

NET10-1: Adaptive Local Route Optimization in Hierarchical Mobile IPv6 Networks

Sangheon Pack (Seoul National University, Korea), Taekyoung Kwon (Seoul National University, Korea), Yanghee Choi (Seoul National University, Korea)

NET10-2: Mobile 4-in-6: A Novel IPv4 / IPv6 Transitioning Mechanism for Mobile Hosts

Joe Finney (Lancaster University, UK), Stefan Schmid (Lancaster University, UK), Andrew Scott (Lancaster University, UK)

NET10-3: Mobility Anchor Point Selection Based on User Mobility in HMIPv6 Integrated with Fast Handover Mechanism

E. Natalizio (University of Calabria, Italy), A. Scicchitano (University of Calabria, Italy), S. Marano (University of Calabria, Italy)

NET10-4: Early Binding Updates for Mobile IPv6

Christian Vogt (University of Karlsruhe, Germany), Roland Bless (University of Karlsruhe, Germany), Mark Doll (University of Karlsruhe, Germany), Tobias Kuefner (University of Karlsruhe, Germany)

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NET11: Wireless Metropolitan Area Networks

NET11-1: Mobility Support for IEEE 802.16d Wireless Networks (invited paper)

Kin K. Leung (Imperial College, UK), Sayandev Mukherjee (Bell Labs, Lucent Technologies, USA), George E. Rittenhouse (Bell Labs, Lucent Technologies, USA)

NET11-2: On the Performance of Metro-Scale Ad Hoc Networks

Rajendra V. Boppana (The University of Texas at San Antonio, USA), Zhi Zheng (The University of Texas at San Antonio, USA)

NET11-3: Constructing Collocated Non-Interfering Wireless Meshes with Beam-Crossing Grids

Pai-Hsiang Hsiao (Harvard University, USA), H. T. Kung (Harvard University, USA)

NET11-4: A Link Adaptation Algorithm for IEEE 802.16

Shyamal Ramachandran (MeshNetworks Inc., USA), Charles W. Bostian (Virginia Polytechnic Institute and State University, USA), Scott F. Midkiff (Virginia Polytechnic Institute and State University, USA)

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NET12: Satellite Networks

NET12-1: Broadband Satellite Networks: Trends and Challenges (invited paper)

Sastri L. Kota (Harris Corporation, USA)

NET12-2: Fast and Accurate Cancellation on Carrier Super-positioning for VSAT Frequency Re-use

Michihiro Ichikawa (Nara Institute of Science and Technology, Japan), Takao Hara (Nara Institute of Science and Technology, Japan), Minoru Okada (Nara Institute of Science and Technology, Japan), Heiichi Yamamoto (Nara Institute of Science and Technology, Japan), Kiyotake Ando (JSAT Corporation, Japan)

NET12-3: An Enhanced QoS Routing Algorithm for Provision of End-to-End Delay Guarantee in Low Earth Orbit Satellite Networks

Qijie Huang (Institute for Infocomm Research, Singapore, National University of Singapore, Singapore), Boon Sain Yeo (Institute for Infocomm Research, Singapore), Peng-Yong Kong (Institute for Infocomm Research, Singapore)

NET12-4: An Experimental Evaluation of a Novel Acknowledgment Scheme over GEO-Satellite Links

Ru H. Wang (Lamar University, USA), Satinderbir Singh (Lamar University, USA), Sreelakshmi Bonasu (Lamar University, USA), Guangbin Fan (University of Mississippi, USA)

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NET13: TCP over Wireless

NET13-1: TCP Congestion Control with ACK-Pacing for Vertical Handover

Yosuke Matsushita (Osaka University, Japan), Takahiro Matsuda (Osaka University, Japan), Miki Yamamoto (Osaka University, Japan)

NET13-2: TCP/IP Analysis and Optimization over a Precommercial Live UMTS Network

M. Catalan (Technical University of Catalonia, Spain), C. Gomez (Technical University of Catalonia, Spain), D. Viamonte (Technical University of Catalonia, Spain), J. Paradells (Technical University of Catalonia, Spain), A. Calveras (Technical University of Catalonia, Spain), F. Barcelo (Technical University of Catalonia, Spain)

NET13-3: Modeling Split-TCP Latency and Buffering Requirements in GEO Satellite Networks

M. Karaliopoulos (University of Surrey, UK), R. Tafazolli (University of Surrey, UK), B. Evans (University of Surrey, UK)

NET13-4: Quality of Service for TCP over Satellite Links in Congested Networks

Unghee Lee (Virginia Polytechnic Institute and State University, USA), Scott F. Midkiff (Virginia Polytechnic Institute and State University, USA)

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NET14: Wireless Network Security

NET14-1: DoS-resistant Access Control Protocol with Identity Confidentiality for Wireless Networks

Zhiguo Wan (National University of Singapore, Singapore), Bo Zhu (National University of Singapore, Singapore), Robert H. Deng (Singapore Management University, Singapore), Feng Bao (Institute for Infocomm Research, Singapore), Akkihebbal L. Ananda (National University of Singapore, Singapore)

NET14-2: Access Control for Future Mobile Devices

Hongyuan Chen (Nokia Research Center, Japan), T. V. L. N Sivakumar (Nokia Research Center, Japan)

NET14-3: Mobile IPv4 Secure Firewall Traversal with Deployment of Foreign Agents

Jin Tang (Georgia Institute of Technology, USA), John A. Copeland (Georgia Institute of Technology, USA)

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NET15: Multihop and Ad Hoc WLANs

NET15-1: Effect of Relaying on Capacity Improvement in Wireless Local Area Networks

Aaron So (University of Toronto, Canada), Ben Liang (University of Toronto, Canada)

NET15-2: The Impact of Lossy Links on TCP Performance in IEEE 802.11 based Ad Hoc Networks

Xia Li (National University of Singapore, Singapore, Institute for Infocomm Research, Singapore), KeeChaing Chua (National University of Singapore, Singapore), Peng-Yong Kong (Institute for Infocomm Research, Singapore), ShengMing Jiang (Institute for Infocomm Research, Singapore)

NET15-3: Proportional Fairness in Wireless LANs and Ad Hoc Networks

Bin Jiang Li (The Chinese University of Hong Kong, Hong Kong), Chang Liew Soung (The Chinese University of Hong Kong, Hong Kong)

NET15-4: BLAM: An Energy-Aware MAC Layer Enhancement for Wireless Ad Hoc Networks

Sameh Gabriel (University of Pittsburgh, USA), Rami Melhem (University of Pittsburgh, USA), Daniel Mossé (University of Pittsburgh, USA)

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NET16: Mobility over WLANs/WLAN Deployment

NET16-1: QoS for Inter-WLAN IP Mobility with High Speed Accessed Network Server

Moshiur Rahman (AT&T Labs, USA), Fotios Harmantzis (Stevens Institute of Technology, USA), Vinoth Gunasekaran (Stevens Institute of Technology, USA)

NET16-2: Roaming Key based Fast Handover in WLANs

A. R. Prasad (DoCoMo Communications Laboratories Europe GmbH, Germany), H. Wang (DoCoMo Communications Laboratories Europe GmbH, Germany)

NET16-3: A Network Layer Seamless Handover Scheme Based on Xcast for Wireless LANs

Lei Li (The Graduate University for Advanced Studies, Japan), Shinji Abe (National Institute of Informatics, Japan)

NET16-4: Joint Access Point Placement and Channel Assignment for 802.11 Wireless LANs

Xiang Ling (University of Electronic Science and Technology of China, China), Kwan Lawrence Yeung (University of Hong Kong, Hong Kong)

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NET17: Real-time Traffic over WLAN

NET17-1: Using Dynamic PCF to Improve the Capacity for VoIP Traffic in IEEE 802.11 Networks (invited paper)

Takehiro Kawata (NTT, Japan), Sangho Shin (Columbia University, USA), Andrea G. Forte (Columbia University, USA), Henning Schulzrinne (Columbia University, USA)

NET17-2: Wireless LAN Resource Management Mechanism Guaranteeing Minimum Available Bandwidth for Real-Time Communication

Toshihiko Tamura (NTT Corporation, Japan), Tadashi Ito (NTT Corporation, Japan)

NET17-3: Optimization of a Link Adaptation Algorithm for Voice over Wireless LAN Applications

Tony Braskich (Motorola Labs, USA), Nattavut Smavatkul (Motorola Labs, USA), Steve Emeott (Motorola Labs, USA)

NET17-4: Effect of Packet Size on Loss Rate and Delay in Wireless Links

Jari Korhonen (National University of Singapore, Singapore), Ye Wang (National University of Singapore, Singapore)

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NET18: WLAN Performance

NET18-1: A Methodology for the Energy Efficiency Performance Evaluation of Tree-search Contention Resolution Algorithms (invited paper)

Chatschik Bisdikian (IBM T. J. Watson Research Center, USA)

NET18-2: Enhancing 802.11 DCF MAC for TCP/IP Communication

Yoshifumi Nishida (Sony Computer Science Laboratories, Inc., Japan)

NET18-3: SCW: Sliding Contention Window for Efficient Service Differentiation in IEEE 802.11 Networks

Abdelhamid Nafaa (University of Versailles, France), Adlen Ksentini (University of Cergy-Pontoise, France), Ahmed Mehaoua (University of Versailles, France)

NET18-4: A Technical and Micro-Economic Analysis of Wireless LANs

Leonardo Badia (University of Ferrara, Italy), Michele Zorzi (University of Padova, Italy)

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NET19: Mobility Models and Effects

NET19-1: The Influence Mobility Model: A Novel Hierarchical Mobility Modeling Framework

Muhammad U. Ilyas (Michigan State University, USA, Lahore University of Management Sciences, Pakistan), Hayder Radha (Michigan State University, USA)

NET19-2: Using Delaunay Triangulation to Construct Obstacle Detour Mobility Model

Dijiang Huang (University of Missouri–Kansas City, USA)

NET19-3: Impact of Mobility on Connection Stability in Ad Hoc Networks

Sungsoon Cho (University of Michigan, USA), John P. Hayes (University of Michigan, USA)

NET19-4: HSDPA Flow Level Performance and the Impact of Terminal Mobility

Remco Litjens (TNO Telecom, The Netherlands)

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NET20: Experimental Evaluations

NET20-1: Overview of the ORBIT Radio Grid Testbed for Evaluation of Next-Generation Wireless Network Protocols (invited paper)

D. Raychaudhuri (Rutgers University, USA), I. Seskar (Rutgers University, USA), M. Ott (Rutgers University, USA), S. Ganu (Rutgers University, USA), K. Ramachandran (Rutgers University, USA), H. Kremo (Rutgers University, USA), R. Siracusa (Rutgers University, USA), H. Liu (Rutgers University, USA), M. Singh (Rutgers University, USA)

NET20-2: GPRS Measurement Methodologies and Performance Characterization for the Railway Environment

Dirk Michel (Bechtel Telecommunications, UK), Nathan Ramasarma (Bechtel Telecommunications, USA)

NET20-3: Empirical Observations on Wireless LAN Performance in Vehicular Traffic Scenarios and Link Connectivity based Enhancements for Multihop Routing

Jatinder Pal Singh (Stanford University, USA), Nicholas Bambos (Stanford University, USA), Bhaskar Srinivasan (Robert Bosch Corporation, USA), Detlef Clawin (Robert-Bosch-Strasse 200, Germany), Yonchun Yan (University of Cincinnati, USA)

NET20-4: Implementation of a Cellular Framework for Spontaneous Network Establishment

Marc Danzeisen (University of Berne, Switzerland, Swisscom AG, Switzerland), Torsten Braun (University of Berne, Switzerland), Simon Winiker (University of Berne, Switzerland), Daniel Rodellar (Swisscom AG, Switzerland)

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NET21: Cellular WLAN Interworking

NET21-1: An Improved Interworking Architecture for UMTS–WLAN Tight Coupling

Chunming Liu (Florida International University, USA), Chi Zhou (Florida International University, USA)

NET21-2: Incentive Scheduling for Cooperative Relay in WWAN/WLAN Two-Hop-Relay Network

Hung-Yu Wei (NEC Labs America, USA, Columbia University, USA), Richard D. Gitlin (Columbia University, USA)

NET21-3: Practical Considerations on End-to-End Cellular/PWLAN Architecture in Support of Bilateral Roaming

Jenq-Shiou Leu (National Tsing Hua University, Taiwan), Rong-Horng Lai (Mobitai Communications, Taiwan), Hsin-I Lin (Mobitai Communications, Taiwan), Wei-Kuan Shih (National Tsing Hua University, Taiwan)

NET21-4: WRN: Improving System Performance in 3G Networks Through Fixed multiHop Relay Nodes

Shamik Sengupta (University of Central Florida, USA), Mainak Chatterjee (University of Central Florida, USA), Samrat Ganguly (NEC Laboratories America, USA), Rauf Izmailov (NEC Laboratories America, USA)

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NET22: Cellular Network Engineering

NET22-1: Geographic Load Balancing for WCDMA Mobile Networks Using a Bubble Oscillation Algorithm

Lin Du (Philips Research East Asia, P.R. China), John Bigham (University of London, UK), Laurie Cuthbert (University of London, UK)

NET22-2: Dynamic Inter-Operator Spectrum Sharing for UMTS FDD with Displaced Cellular Networks

M. K. Pereirasamy (Siemens AG, Germany), J. Luo (Siemens AG, Germany), M. Dillinger (Siemens AG, Germany), C. Hartmann (Technical University of Munich, Germany)

NET22-3: Novel Algorithms for Reducing Cell Sites during a Technology Upgrade and Network Overlay

David Abusch-Magder (Bell Labs, Lucent Technology, USA)

NET22-4: A Simple and Accurate Linear Solver for Hyperbolic Localization

Haoyun Wu (Sensis Corporation, USA), I-tai Lu (Polytechnic University, USA)

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NET23: End-to-end Performance

NET23-1: Latency Analysis of WAP 2.0 for Short-Lived Flows

Humphrey Rutagemwa (University of Waterloo, Canada), Xuemin Shen (University of Waterloo, Canada), Jon W. Mark (University of Waterloo, Canada)

NET23-2: Using Network Tomography for Dynamic Path Adaptation

Hazar Aouad (Ecole Nationale Supérieure des Télécommunications, France), Samir Tohme (Versailles St Quentin University, France)

NET23-3: Local Restoration for Bandwidth Guaranteed Connections in Mobile Optical Backbone Networks

Fangting Sun (University of Maryland, USA), Mark Shayman (University of Maryland, USA)

NET23-4: Load Balancing in Distributed Computing over Wireless LAN: Effects of Network Delay

S. Dhakal (University of New Mexico, USA), M. M. Hayat (University of New Mexico, USA), M. Elyas (University of New Mexico, USA), J. Ghanem (University of New Mexico, USA), C. T. Abdallah (University of New Mexico, USA)

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NET24: Wireless Network Performance 1

NET24-1: Multicast Streaming over 3G Cellular Networks through multiChannel Transmissions: Proposals and Performance Evaluation

Michele Rossi (University of Ferrara, Italy), Paolo Casari (University of Padova, Italy), Marco Levorato (University of Padova, Italy), Michele Zorzi (University of Padova, Italy)

NET24-2: Comparison of Signaling Performance in the UMTS Radio Access Network and a Merged Radio Access Network Architecture

Andreas Mitschele-Thiel (Technical University of Ilmenau, Germany), Peter Schefczik (Lucent Technologies, Germany), Anja Wiedemann (University of Duisburg-Essen, Germany)

NET24-3: Retransmission Strategies for MBMS over GERAN

Hrvoje Jenka_ (Munich University of Technology, Germany), Günther Liebl (Munich University of Technology, Germany), Thomas Stockhammer (Siemens AG, Germany), Wen Xu (Siemens AG, Germany)

NET24-4: Multicast Optimization in Broadband Adaptive Optical Wireless Networks

Ahmed M. Mahdy (University of Nebraska–Lincoln, USA), Jitender S. Deogun (University of Nebraska–Lincoln, USA)

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NET25: Wireless Network Performance 2

NET25-1: Locality-based Techniques for Computationally Simplifying Wireless Network Optimization

R. Kang-Xing Jin (Bell Labs, Lucent Technologies, USA), Jeffrey Brian Arnold (Bell Labs, Lucent Technologies, USA), David Abusch-Magder (Bell Labs, Lucent Technology, USA)

NET25-2: Cell Stay Time Prediction for Mobility Independent Predictive Services in Wireless Networks

F. De Rango (University of Calabria, Italy), P. Fazio (University of Calabria, Italy), S. Marano (University of Calabria, Italy)

NET25-3: TCP Traffic in Bluetooth 1.2: Performance and Dimensioning of Flow Control

Jelena Mi_i_ (University of Manitoba, Canada), Ka Lok Chan (The Hong Kong University of Science and Technology, China), Vojislav Mi_i_ (University of Manitoba, Canada)

NET25-4: Permeable-Layer Receiver for Reliable Multicast Transmission in Wireless Systems

Hrvoje Jenka_ (Munich University of Technology, Germany), Thomas Stockhammer (Siemens AG, Germany), Wen Xu (Siemens AG, Germany)

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NET26: Sensor Network Protocols

NET26-1: A Cross-layer Approach for Efficient Flooding in Wireless Sensor Networks

Xiaodong Wang (University of Cincinnati, USA), Jun Yin (University of Cincinnati, USA), Qi Zhang (University of Cincinnati, USA), Dharma P. Agrawal (University of Cincinnati, USA)

NET26-2: A State-free Data Delivery Protocol for Multihop Wireless Sensor Networks

Dazhi Chen (Syracuse University, USA), Jing Deng (University of New Orleans, USA), Pramod K. Varshney (Syracuse University, USA)

NET26-3: A Distributed Protocol for Query Execution in Sensor Networks

Jang-Ping Sheu (National Central University, Taiwan), Chia-Hao Yu (National Central University, Taiwan), Tu Shin-Chih (University of National Central, Taiwan)

NET26-4: Analysis of Hierarchical Algorithms for Wireless Sensor Network Routing Protocols

Kevin Sean Chan (Georgia Institute of Technology, USA), Hossein Pishro-Nik (Georgia Institute of Technology, USA), Faramarz Fekri (Georgia Institute of Technology, USA)

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NET27: Sensor Network: Node Placement and Localization

NET27-1: Towards Optimal Sensor Placement with Hypercube Cutting Planes (invited paper)

Siddhartha Chaudhuri (Indian Institute of Technology, Kanpur, India), R. K. Ghosh (Indian Institute of Technology, Kanpur, India), Sajal K. Das (The University of Texas at Arlington, USA)

NET27-2: Sensor Networks over Information Fields: Optimal Energy and Node Distributions

Hithesh Nama (Rutgers University, USA), Narayan Mandayam (Rutgers University, USA)

NET27-3: Density-Aware Hop-Count Localization (DHL) in Wireless Sensor Networks with Variable Density

Sau Yee Wong (Institute of Infocomm Research, Singapore, National University of Singapore, Singapore), Joo Ghee Lim (Institute for Infocomm Research, Singapore), S. V. Rao (Institute for Infocomm Research, Singapore), Winston K. G. Seah (Institute for Infocomm Research, Singapore)

NET27-4: A Distributed Algorithm for Logical Location Estimation in Speckled Computing

R. McNally (University of Edinburgh, Scotland), K. J. Wong (University of Edinburgh, Scotland), D. K. Arvind (University of Edinburgh, Scotland)

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NET28: Sensor Network: Energy Efficiency 1

NET28-1: Energy Aware Routing for Spatio-Temporal Queries in Sensor Networks (invited paper)

Neha Jain (University of Cincinnati, USA), Ratnabali Biswas (University of Cincinnati, USA), Nagesh Nandiraju (University of Cincinnati, USA), Dharma P. Agrawal (University of Cincinnati, USA)

NET28-2: Energy and Mobility Aware Geographical Multipath Routing for Wireless Sensor Networks

Qilian Liang (University of Texas at Arlington, USA), Qingchun Ren (University of Texas at Arlington, USA)

NET28-3: Energy Efficient Clustering in Sensor Networks with Mobile Agents

Mahdi Lotfinezhad (University of Toronto, Canada), Ben Liang (University of Toronto, Canada)

NET28-4: Energy-Aware, Collaborative Tracking with Ad Hoc Wireless Sensor Networks

Sanjeevi Balasubramanian (Wichita State University, USA), Sudharman K. Jayaweera (Wichita State University, USA), Kameswara R. Namuduri (Wichita State University, USA)

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NET29: Sensor Network: Energy Efficiency 2

NET29-1: Towards a Model of Energy Complexity for Algorithms (invited paper)

Ravi Jain (DoCoMo USA Laboratories, USA), David Molnar (University of California, Berkeley, USA), Zulfikar Ramzan (DoCoMo USA Laboratories, USA)

NET29-2: Lifetime Maximization under Reliability Constraint via Cross-Layer Strategy in Wireless Sensor Networks

Hojoong Kwon (Seoul National University, Korea), Tae Hyun Kim (Seoul National University, Korea), Sunghyun Choi (Seoul National University, Korea), Byeong Gi Lee (Seoul National University, Korea)

NET29-3: A Minimum-Power Wireless Sensor Network Self-Deployment Scheme

Wei Li (Boston University, USA), Christos G. Cassandras (Boston University, USA)

NET29-4: Fuzzy Optimization for Distributed Sensor Deployment

Haining Shu (University of Texas at Arlington, USA), Qilian Liang (University of Texas at Arlington, USA)

Thursday, March 17, 2005

14:00 - 15:30 Room 202

NET30: Sensor Network: Security

NET30-1: Securing Sensor Networks with Location-based Keys

Yanchao Zhang (University of Florida, USA), Wei Liu (University of Florida, USA), Wenjing Lou (Worcester Polytechnic Institute, USA), Yuguang Fang (University of Florida, USA)

NET30-2: A Robust Group-based Key Management Scheme for Wireless Sensor Networks

Zhen Yu (Iowa State University, USA), Yong Guan (Iowa State University, USA)

NET30-3: LLK: A Link-Layer Key Establishment Scheme for Wireless Sensor Networks

Yun Zhou (University of Florida, USA), Yanchao Zhang (University of Florida, USA), Yuguang Fang (University of Florida, USA)

NET30-4: The New Intrusion Prevention and Detection Approaches for Clustering-based Sensor Networks

Chien-Chung Su (National Cheng Kung University, Taiwan), Ko-Ming Chang (National Cheng Kung University, Taiwan), Yau-Hwang Kuo (National Cheng Kung University, Taiwan), Mong-Fong Horng (Shu-Te University, Taiwan)

Thursday, March 17, 2005

16:00 - 17:00 Room 202

NET31: Sensor Network Design

NET31-1: Critical Area Attention in Traffic Aware Dynamic Node Scheduling for Low Power Sensor Networks

Mostafa Ghannad Rezaie (University of Tehran, Iran), Vahid Shah Mansouri (Shrift University of Technology, Iran), Mehdi Mani (Institut National des Telecommunications, France)

NET31-2: Distributed Source Coding in Wireless Sensor Networks using LDPC Coding: The Entire Slepian-Wolf Rate Region

Mina Sartipi (Georgia Institute of Technology, USA), Faramarz Fekri (Georgia Institute of Technology, USA)

NET31-3: Self-Organizing Redundancy-Cellular Architecture for Wireless Sensor Networks
Xiaofei Wang (Cornell University, USA), Toby Berger (Cornell University, USA)

NET31-4: A Study into the Practical Issues Related to a Deployed Ad Hoc Wireless Sensor Network
E. L. Kuan (Multiple Access Communications Limited, UK)

Tuesday, March 15, 2005

14:00 - 15:30 Room 202

NET32: MANET Routing 1

NET32-1: Multipath Fresnel Zone Routing for Wireless Ad Hoc Networks

Yibin Liang (Virginia Polytechnic Institute and State University, USA), Scott F. Midkiff (Virginia Polytechnic Institute and State University, USA)

NET32-2: Neighbor Stability Routing in MANETs

Lei Chen (Auburn University, USA), Chung-wei Lee (Auburn University, USA)

NET32-3: Node Caching Enhancement of Reactive Ad Hoc Routing Protocols

Sunsook Jung (Georgia State University, USA), Nisar Hundewale (Georgia State University, USA), Alex Zelikovsky (Georgia State University, USA)

NET32-4: A Cross-Layer Approach for Designing Directional Routing Protocol in MANETs

Hrishikesh Gossain (University of Cincinnati, USA), Tarun Joshi (University of Cincinnati, USA), Carlos Cordeiro (Philips Research, USA), Dharma P. Agrawal (University of Cincinnati, USA)

Wednesday, March 16, 2005

9:00 - 10:30 Room 202

NET33: MANET Routing 2

NET33-1: Adaptive Load Balancing in Mobile Ad Hoc Networks

Shouyi Yin (Tsinghua University, P.R. China), Xiaokang Lin (Tsinghua University, P.R. China)

NET33-2: Routing with Congestion Awareness and Adaptivity in Mobile Ad Hoc Networks

Duc A. Tran (University of Dayton, USA), Harish Raghavendra (University of Dayton, USA)

NET33-3: Dynamic Nix-Vector Routing for Mobile Ad Hoc Networks

Young J. Lee (Georgia Institute of Technology, USA), George F. Riley (Georgia Institute of Technology, USA)

NET33-4: A Workload-based Adaptive Load-Balancing Technique for Mobile Ad Hoc Networks

Young J. Lee (Georgia Institute of Technology, USA), George F. Riley (Georgia Institute of Technology, USA)

Thursday, March 17, 2005

9:00 - 10:30 Room 202

NET34: MANET Routing 3

NET34-1: Improving the Efficiency and Reliability of the Route Discovery Process in On-demand Routing Protocols

Marco Aurélio Spohn (University of California at Santa Cruz, USA), J. J. Garcia-Luna-Aceves (University of California at Santa Cruz, USA)

NET34-2: Path Verification for Robust, Instantaneous Loop-free Routing in Ad Hoc Networks

Hari Rangarajan (University of California, Santa Cruz, USA), J. J. Garcia-Luna-Aceves (University of California at Santa Cruz, USA)

NET34-3: Establishing Measurement-based Reliable Path in Mobile Ad Hoc Networks

Ki-Il Kim (Chungnam National University, Korea), Sang-Ha Kim (Chungnam National University, Korea)

NET34-4: On-Line Disjoint Path Routing for Network Capacity Maximization in Ad Hoc Networks

Weifa Liang (Australian National University, Australia), Yuzhen Liu (Wuhan University, P.R. China), Xiaoxing Guo (Australian National University, Australia)

Tuesday, March 15, 2005

16:00 - 17:30 Room 202

NET35: MANET Routing 4

NET35-1: Experimental Evaluation of LANMAR, a Scalable Ad Hoc Routing Protocol

Yeng-Zhong Lee (University of California at Los Angeles, USA), Jason Chen (University of California at Los Angeles, USA), Xiaoyan Hong (The University of Alabama, USA), Kaixin Xu (University of California at Los Angeles, USA), Teresa Breyer (University of California at Los Angeles, USA), Mario Gerla (University of California at Los Angeles, USA)

NET35-2: Ferry Replacement Protocols in Sparse MANET Message Ferrying Systems

Jeonghwa Yang (Georgia Institute of Technology, USA), Yang Chen (Georgia Institute of Technology, USA), Mostafa Ammar (Georgia Institute of Technology, USA), Chungkee Lee (Georgia Institute of Technology, USA)

NET35-3: Route Reservation in Ad Hoc Networks: Is It a Good Idea?

Sooksan Panichpapiboon (Carnegie Mellon University, USA), Gianluigi Ferrari (Carnegie Mellon University, USA), Nawaporn Wisitpongphan (Carnegie Mellon University, USA), Ozan K. Tonguz (Carnegie Mellon University, USA)

NET35-4: Routing and Interface Assignment in multiChannel multiInterface Wireless Networks

Pradeep Kyasanur (University of Illinois at Urbana-Champaign, USA), Nitin H. Vaidya (University of Illinois at Urbana-Champaign, USA)

Tuesday, March 15, 2005

16:00 - 17:30 Room 203

NET36: MANET Power Efficient Broadcasting

NET36-1: The Minimum Power Broadcast Problem in Wireless Networks: A Simulated Annealing Approach

Roberto Montemanni (Istituto Dalle Molle di Studi sull'Intelligenza Artificiale, Switzerland), Luca Maria Gambardella (Istituto Dalle Molle di Studi sull'Intelligenza Artificiale, Switzerland), Arindam K. Das (University of Washington, USA)

NET36-2: Scalable Power-Efficient Broadcast over Densely Deployed Wireless Ad Hoc Networks

Intae Kang (University of Washington, USA), Radha Poovendran (University of Washington, USA)

NET36-3: Local Versus Global Power Adaptive Broadcasting in Ad Hoc Networks

Kyriakos Karenos (University of California, Riverside, USA), Asheq Khan (University of California, Riverside, USA), Srikanth Krishnamurthy (University of California, Riverside, USA), Michalis Faloutsos (University of California, Riverside, USA), Xiaohu Chen (University of California, Riverside, USA)

NET36-4: NB-TRACE: Network-Wide Broadcasting Through Time Reservation Using Adaptive Control for Energy Efficiency

Bulent Tavli (University of Rochester, USA), Wendi B. Heinzelman (University of Rochester, USA)

Tuesday, March 15, 2005

9:00 - 10:30 Room 203

NET37: MANET Key Management

NET37-1: Analysis of a Hybrid Key Management Solution for Ad Hoc Networks

Aruna Balasubramanian (University at Buffalo, USA), Sumita Mishra (CompSys Technologies Inc., USA), Ramalingam Sridhar (University at Buffalo, USA)

NET37-2: An Improved Authenticated Key Agreement Protocol with Perfect Forward Secrecy for Wireless Mobile Communication

Ai-fen Sui (The University of Hong Kong, Hong Kong), Lucas C. K. Hui (The University of Hong Kong, Hong Kong), S. M. Yiu (The University of Hong Kong, Hong Kong), K. P. Chow (The University of Hong Kong, Hong Kong), W. W. Tsang (The University of Hong Kong, Hong Kong), C. F. Chong (The University of Hong Kong, Hong Kong), K. H. Pun (The University of Hong Kong, Hong Kong), H. W. Chan (The University of Hong Kong, Hong Kong)

NET37-3: PGSP: A Protocol for Secure Communication in Peer-to-Peer System

Neelima Arora (Intel Technologies Pvt. Ltd., India), R. K. Shyamasundar (Tata Institute of Fundamental Research, India)

NET37-4: An Authenticated Group Key Agreement for Wireless Networks

Chik How Tan (Nanyang Technological University, Singapore), Joseph Chee Ming Teo (Nanyang Technological University, Singapore)

Tuesday, March 15, 2005

14:00 - 15:30 Room 203

NET38: MANET Security

NET38-1: Detecting and Locating Wormhole Attacks in Wireless Ad Hoc Networks through Statistical Analysis of Multipath

Lijun Qian (Prairie View A&M University, USA), Ning Song (Prairie View A&M University, USA), Xiangfang Li (WRutgers University, USA)

NET38-2: Mitigating Malicious Control Packet Floods in Ad Hoc Networks

Saman Desilva (The University of San Antonio, USA), Rajendra V. Boppana (The University of Texas at San Antonio, USA)

NET38-3: Resource-Aware Self-Adaptive Security Provisioning in Mobile Ad Hoc Networks

Chunxiao Chigan (Michigan Technological University, USA), Leiyan Li (Michigan Technological University, USA), Yinghua Ye (Nokia Research Center, USA)

NET38-4: Piconet Security in IEEE 802.15.3 WPAN

Zhihua Tao (Microsoft Research Asia, P.R. China), Zihua Guo (Microsoft Research Asia, P.R. China), Richard Yao (Microsoft Research Asia, P.R. China)

Wednesday, March 16, 2005

9:00 - 10:30 Room 203

NET39: MANET Fairness

NET39-1: A Self-Learning Repeated Game Framework for Optimizing Packet Forwarding Networks

Zhu Han (University of Maryland, College Park, USA), Charles Pandana (University of Maryland, College Park, USA), K. J. Ray Liu (University of Maryland College Park, USA)

NET39-2: TWOACK: Preventing Selfishness in Mobile Ad Hoc Networks

Kashyap Balakrishnan (Deloitte & Touche LLP, USA), Jing Deng (University of New Orleans, USA), Pramod K. Varshney (Syracuse University, USA)

NET39-3: Towards Cooperation Fairness in Mobile Ad Hoc Networks

Haijin Yan (The University of Georgia, USA), David Lowenthal (The University of Georgia, USA)

NET39-4: Improving Per-Flow Fairness in Wireless Ad Hoc Networks

Oyunchimeg Shagdar (ATR Adaptive Communications Research Laboratories, Japan), Bing Zhang (ATR Adaptive Communications Research Laboratories, Japan)

Monday, March 14, 2005

16:00 - 17:30 Room 215

NET40: MANET Multicast Routing

NET40-1: On-Demand Overlay Multicast in Mobile Ad Hoc Networks

Oliver Stanze (University of Karlsruhe, Germany), Martina Zitterbart (University of Karlsruhe, Germany)

NET40-2: On Demand Multicast Routing with Unidirectional Links

Mario Gerla (University of California at Los Angeles, USA), Yeng-Zhong Lee (University of California at Los Angeles, USA), Joon-Sang Park (University of California, Los Angeles, USA), Yunjung Yi (University of California at Los Angeles, USA)

NET40-3: CQMP: A Mesh-based Multicast Routing Protocol with Consolidated Query Packets

Harleen Dhillon (State University of New York at Buffalo, USA), Hung Q. Ngo (State University of New York at Buffalo, USA)

NET40-4: Enhancing Cellular Multicast Performance Using Ad Hoc Networks

Jun Cheol Park (University of Utah, USA), Sneha Kumar Kasera (University of Utah, USA)

Wednesday, March 16, 2005

16:00 - 17:30 Room 203

NET41: MANET Cross-Layer Design

NET41-1: Does Relay of Corrupted Packets Increase Capacity?

S. S. Karande (Michigan State University, USA), H. Radha (Michigan State University, USA)

NET41-2: Multiuser Diversity Forwarding in Multihop Packet Radio Networks

Peter Larsson (Ericsson Research, Sweden), Niklas Johansson (Ericsson Research, Sweden)

NET41-3: Distributed Channel Assignment Protocols: A Cross-Layer Approach

Michelle X. Gong (Virginia Polytechnic Institute and State University, USA), Scott F. Midkiff (Virginia Polytechnic Institute and State University, USA)

NET41-4: Cross-Layer Optimization of Multihop Radio Networks with Multiuser Detectors

Simone Loretto (Royal Institute of Technology, Sweden), Pablo Soldati (Royal Institute of Technology, Sweden), Mikael Johansson (Royal Institute of Technology, Sweden)

Thursday, March 17, 2005

9:00 - 10:30 Room 203

NET42: MANET Connectivity

NET42-1: Multirate Aware Topology Control in Multihop Ad Hoc Networks

Shihong Zou (Beijing University of Posts and Telecommunications, China), Shiduan Cheng (Beijing University of Posts and Telecommunications, China), Yu Lin (Beijing University of Posts and Telecommunications, China)

NET42-2: Performance Evaluation of Topology Management in Multirate Ad Hoc Networks

Haixia Tan (University of California, Irvine, USA), Weilin Zeng (University of California, Irvine, USA), Lichun Bao (University of California, Irvine, USA)

NET42-3: Asymptotic Critical Transmission Ranges for Connectivity in Wireless Ad Hoc Networks with Bernoulli Nodes

Peng-Jun Wan (Illinois Institute of Technology, USA), Chih-Wei Yi (Illinois Institute of Technology, USA)

NET42-4: Connectivity in the Presence of Shadowing in 802.11 Ad Hoc Networks

Patrick Stuedi (Swiss Federal Institute of Technology, Switzerland), Oscar Chinellato (Swiss Federal Institute of Technology, Switzerland), Gustavo Alonso (Swiss Federal Institute of Technology, Switzerland)

Thursday, March 17, 2005

14:00 - 15:30 Room 203

NET43: MANET Service Provisioning

NET43-1: Random and Linear Address Allocation for Mobile Ad Hoc Networks

Nakjung Choi (Seoul National University, Korea), C. K. Toh (University of London, UK), Yongho Seok (Seoul National University, Korea), Dongkyun Kim (Kyungpook National University, Korea), Yanghee Choi (Seoul National University, Korea)

NET43-2: Adaptive QoS Provisioning in Wireless Ad Hoc Networks: A Semi-MDP Approach

Daniel Yagan (National University of Singapore, Singapore), Chen-Khong Tham (National University of Singapore, Singapore)

NET43-3: Error Recovery for Multicast Conversational Video over Error-Prone Networks (with Application to Ad Hoc WLANs)

Matías Freytes (Universidad Nacional de Córdoba, Argentina), Carlos A. Marqués (Universidad Nacional de Córdoba, Argentina)

NET43-4: Broadcast Methods for Inter-Vehicle Communications System

T. Fukuhara (KDDI R&D Laboratories Inc., Japan), T. Warabino (KDDI R&D Laboratories Inc., Japan), T. Ohseki (KDDI R&D Laboratories, Inc., Japan), K. Saito (KDDI R&D Laboratories Inc., Japan), K. Sugiyama (KDDI R&D Laboratories Inc., Japan), T. Nishida (NiCT, Japan), K. Eguchi (NiCT, Japan)

Thursday, March 17, 2005

16:00 - 17:00 Room 203

NET44: MANET Architecture and Performance

NET44-1: Accurate and Energy-efficient Congestion Level Measurement in Ad Hoc Networks

Jaewon Kang (Rutgers University, USA), Yanyong Zhang (Rutgers University, USA), Badri Nath (Rutgers University, USA)

NET44-2: Rate-based Transport Control for Mobile Ad Hoc Networks

Hongqiang Zhai (University of Florida, USA), Xiang Chen (University of Florida, USA), Yuguang Fang (University of Florida, USA)

NET44-3: Service Architecture for Integrating MANETs with Heterogeneous IP Networks

Joe C. Chan (University of Technology, Sydney, Australia), Doan B. Hoang (University of Technology, Sydney, Australia)

NET44-4: Minimizing Average Network Delay for Ultra-Wideband Wireless Networks

Christopher S. Taggart (North Carolina State University, USA), Yannis Viniotis (North Carolina State University, USA), Mihail L. Sichitiu (North Carolina State University, USA)