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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
Enure 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
NET03-3: Admission Control for Realtime Traffic: Improving Performance of Mobile Networks by Operating on Actual Throughput
Andreas Brandt (Humbold 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

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), Thinh 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)

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 Poungkong (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 Canceller 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), KeeChang 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)

Sameh Gobriel (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), Fotos Harmanzis (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)

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)

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)

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)

    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 (École 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 Mischele-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_i_ (University of Manitoba, Canada), Ka Lok Chan (The Hong Kong University of Science and Technology, China), Vojislav Mi_i_i_ (University of Manitoba, Canada)

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)

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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NET28-1: 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)

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)

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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), Mau-Hwang Kuo (National Cheng Kung University, Taiwan), Mong-Fong Horng (Shu-Te University, Taiwan)

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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 (Sharif 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)

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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)

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

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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 NLx-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)

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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)

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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)

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NET36: MANET Power Efficient Broadcasting
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)
Bulent Tavli (University of Rochester, USA), Wendi B. Heinzelman (University of Rochester, USA)

Tuesday, March 15, 2005
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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
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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), Leiyuan 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), Zhihua Guo (Microsoft Research Asia, P.R. China), Richard Yao (Microsoft Research Asia, P.R. China)

Wednesday, March 16, 2005
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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
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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
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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)

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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)

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

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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)