Networks Track

Monday 6 April, 11:10 - 13:00, Corso B

NET 1: Congestion and Admission Control
NET 1.1: Admission Control based on Dynamic Rate Constraints in Multi-Hop Networks
Simon Odou, Steven Martin, Khaldoun Al Agha, LRI - Université Paris-Sud - CNRS, France

NET 1.2: Exploiting Adaptive Window Techniques to Reduce TCP Congestion in Mobile Peer Networks
Julian Buhagiar, Carl James Debono, University of Malta, Malta

NET 1.3: Fair Flow Control in Solar Powered WLAN Mesh Networks
Ghada Badawy, Amir Sayegh, Terence Todd, McMaster University, Canada

NET 1.4: Routing and Admission Control for Wireless Mesh Networks with Directional Antennas
Osama Bazan, Muhammad Jaseemuddin, Ryerson University, Canada

NET 1.5: Stability Analysis of XCP Congestion Control Systems
Zongtao Lu, Shijie Zhang, Case Western Reserve University, United States

Monday 6 April, 11:10 - 13:00, Lánchíd B

NET 2: Wireless Sensor Networks 1
NET 2.1: Communication Scheme for Loosely Coupled Mobile User Groups in Wireless Sensor Fields
Eusin Lee, Soochang Park, Fucai Yu, Min-Sook Jin, Sang-Ha Kim, Chungnam National University, Korea, Republic of

NET 2.2: PADRE: Modulated Backscattering-based PAssive Data REtrieval in Wireless Sensor Networks
Ozgur Akan, Talha Isik, Middle East Technical University, Turkey

NET 2.3: Performance of Distributed Consensus Time Synchronization with Gaussian Delay in Wireless Sensor Networks
Gang Xiong, Shalinee Kishore, Lehigh University, United States

NET 2.4: Routing and Relay Node Placement in Wireless Sensor Networks Powered by Ambient Energy Harvesting
Zhi Ang Eu, National University of Singapore, Singapore; Hwee-Pink Tan, Winston Seah, Institute for Infocomm Research, A*STAR, Singapore

NET 2.5: Towards Clustering Algorithms in Wireless Sensor Networks-A Survey
Congfeng Jiang, Daomin Yuan, Hangzhou Dianzi University, China; Yinghui Zhao, Zhejiang Tongji Vocational College of Sci. and Tech., China

Monday 6 April, 11:10 - 13:00, Árpád

NET 3: Localization 1
NET 3.1: A Distributed Algorithm for Localization Error Detection-Correction, Use in In-Network Faulty Reading Detection: Applicability in Long-Thin Wireless Sensor Networks
Debraj De, Ohio State University, United States

NET 3.2: A Fine-Grained Localization Algorithm in Wireless Sensor Networks
Xueyong Xu, Liusheng Huang, Xiang Li, Jichun Wang, Hongli Xu, University of Science and Technology of China, China

NET 3.3: Derivation of Flip Ambiguity Probabilities to Facilitate Robust Sensor Network Localization
Anushiya A Kannan, University of Sydney, Australia; Baris Fidan, Guoqiang Mao, National ICT Australia (NICTA), Australia

NET 3.4: Joint Localization and Time Synchronization in Wireless Sensor Networks with Anchor Uncertainties
Jun Zheng, Yik-Chung Wu, The University of Hong Kong, Hong Kong

NET 3.5: Pollution Attack: A New Attack Against Localization in Wireless Sensor Networks
Yingpei Zeng, Nanjing University, China; Jiannong Cao, The Hong Kong Polytechnic University, Hong Kong; Shigeng Zhang, Nanjing University, China; Shanqing Guo, Shandong University, China; Li Xie, Nanjing University, China

Monday 6 April, 11:10 - 13:00, Béla B

NET 4: Relay Networks 1
NET 4.1: On the Giant Component in Wireless Multi-Hop Networks
Xiaoyuan Ta, Guoqiang Mao, The University of Sydney, Australia; Brian Anderson, The Australian National University, Australia

NET 4.2: Amplify and Forward for Correlated Data Gathering over Hierarchical Sensor Networks
R. Rajesh, Vinod Sharma, Indian Institute of Science, India

NET 4.3: Analysis of Optimal Relay Selection in IEEE 802.16 Multihop Relay Networks
Yu Ge, Su Wen, Institute for Infocomm Research, Singapore; Yew-Hock Ang, Nanyang Technological University, Singapore

NET 4.4: Analysis of Transparent Mode IEEE 802.16j System Performance with varying Numbers of Relays and Associated Transmit Power
Vasken Genc, Sean Murphy, John Murphy, University College Dublin, Ireland

Monday 6 April, 14:30 - 16:20, Corso B

NET 5: Mobile and Wireless IP 1
NET 5.1: On Serving Cell Change Reliability in HSDPA Network
Timo Nihtilä, Kari Aho, Magister Solutions Ltd., Finl; Ilmari Repo, University of Jyväskylä, Finland

NET 5.2: Path Prediction for Resource Reservation between Mobile Nodes
Eraldo Silveira e Silva, Jean-Marie Farines, Federal University of Santa Catarina, Brazil; Michel Diaz, CNRS ; LAAS; Universite de Toulouse, France

NET 5.3: Preliminary Binding: An Extension to Proxy Mobile IPv6 for Inter-Technology Handover
Long Le, Marco Liebsch, NEC Laboratories Europe, Germany

NET 5.4: Proxy Mobile IPv6 Based Multicast Listener Mobility Architecture
Yong Li, Wentao Chen, Li Su, Depeng Jin, Lieguang Zeng, Tsinghua University, China

NET 5.5: Using the Media Independent Information Service to Support Mobile Authentication in Fast Mobile IPv6
Constantine Christakos, Johns Hopkins Applied Physics Laboratory, United States; Antonio Izquierdo, Richard Rouil, National Institute of Stards Technology, United States; Nada Golmie, National Institute of Standards and Technology, United States

Monday 6 April, 14:30 - 16:20, Lánchíd B

NET 6: Multimedia QoS and Traffic Management 1
NET 6.1: A Unified QoS-Inspired Load Optimization Framework for Multiple Access Points Based Wireless LANs
Eng Hwee Ong, Jamil Y. Khan, University of Newcastle, Australia

NET 6.2: A Versatile Probability Distribution for Light and Heavy Tails of Web File Sizes
Edward Chlebus, Gautam Divgi, Illinois Institute of Technology, United States

NET 6.3: Adaptive Setting of TCP's Maximum Window in Ad Hoc Multihop Networks with a Single Flow
Despina Triantafyllidou, LRI - University of Paris XI, France; Vasilios A. Siris, University of Crete, Greece; Khaldoun Al Agha, LRI - University of Paris XI, France

NET 6.4: An Enhanced Load-balancing Approach Using Detour in Ad-hoc Networks
Young-Sil Kim, Young-Jong Cho, Kyungran Kang, Ajou University, Korea, Republic of

NET 6.5: Bounded Delay Transmission of Different Traffic Classes in Wireless Sensor Networks
Narjes Torabi, Masoud Reza Hashemi, Isfahan University of Technology, Iran, Islamic Republic of

Monday 6 April, 14:30 - 16:20, Árpád

NET 7: Wireless Broadcast, Multicast, and Streaming
NET 7.1: A Prioritization-Based Application-Oriented Broadcast Protocol for Delay-Tolerant Networks
Huazhi Gong, Jongwon Kim, Gwangju Institute of Sci&Tech, Korea, Republic of

NET 7.2: Achievable Multicast Throughput for Homogeneous Wireless Ad Hoc Networks
Cheng Wang, Changjun Jiang, Tongji University, China; Shaojie Tang, Xiang-Yang Li, Illinois Institute of Technology, United States; Xianfei Tang, Tongji University, China

NET 7.3: An Incentive based Peer-to-peer Protocol for Anonymous Collaborative Mobile Streaming
Sushil Subramanian, Indian Institute of Technology, Kharagpur, India; Praphul Chandra, Hewlett-Packard Labs, India

NET 7.4: Cross-Layer Optimization of Multipoint Message Broadcast in MANETs
Jimmy Jessen Nielsen, Jesper Grønbæk, Hans-Peter Schwefel, Thibault Renier, Aalborg University, Denmark; Thomas Toftegaard, Tieto IP solutions, Denmark

NET 7.5: Energy and Mobility Aware Clustering Technique for Multicast Routing Protocols in Wireless Ad Hoc Networks
Eric Astier, Abdelhakim Hafid, University of Montreal, Canada; Abderrahim Benslimane, Universite d'Avignon, France

Monday 6 April, 14:30 - 16:20, Béla B

NET 8: Mobility and Handoff Management 1
NET 8.1: Markov Decision Process-based Adaptive Vertical Handoff with RSS Prediction in Heterogeneous Wireless Networks
Ben-Jye Chang, National Yunlin University of Science and Technology, Taiwan; Jun-Fu Chen, Cheng-Hsiung Hsieh, Chaoyang University of Technology, Taiwan; Ying-Hsin Liang, Nankai University of Technology, Taiwan

NET 8.2: Network Mobility Protocol for Vehicular Ad Hoc Networks
Yuh-Shyan Chen, Ching-Hsueh Cheng, National Taipei University, Taiwan; Chih-Shun Hsu, Shih Hsin University, Taiwan; Ge-Ming Chiu, National Taiwan University of Science and Technology, Taiwan

NET 8.3: Performance Evaluation of Reactive and Proactive Handover Schemes for IP Micromobility Networks
Thienne Johnson, Rodrigo Prado, Eduardo Zagari, Tomas Badan, Eleri Cardozo, Unicamp, Brazil; Lars Westberg, Ericsson Research, Sweden

NET 8.4: Smooth Adaptive Soft Handover Algorithm for Multimedia Streaming over Wireless Networks
Bogdan Ciubotaru, Gabriel-Miro Muntean, Dublin City University, Ireland

Monday 6 April, 16:40 - 18:30, Lánchíd B

NET 9: Security
NET 9.1: A Constrained Function Based Message Authentication Scheme for Sensor Networks
Chia-Mu Yu, Chun-Shien Lu, Academia Sinica, Taiwan; Sy-Yen Kuo, National Taiwan University, Taiwan

NET 9.2: A Dual Re-Authentication Scheme for Fast Handoff in IEEE802.11 Wireless Mesh Networks
Ye Yan, Jiannong Cao, Hong Kong Polytechnic University, Hong Kong; Seongwoo Kim, Seoul National University, Korea, Republic of; Chuda Liu, Hong Kong Polytechnic University, Hong Kong; Weigang Wu, Sun Yat-sen University, China

NET 9.3: An Efficient Authentication and Key Management Protocol for Hierarchical Ad Hoc Sensor Networks
Aaron Gulliver, University of Victoria, Canada; Ali Fanian, Mehdi Berenjkoub, Isfahan University of Technology, Iran, Islamic Republic of

NET 9.4: An Innovative SIP Security Mechanism with Seamless Mobility Support
Liang Zhang, Haruya Miyajima, Hideki Hayashi, Softbank Mobile Corp, Japan

NET 9.5: Bandwidth Efficient Key Distribution for Secure Multicast in Dynamic Wireless Mesh Networks
Seungjae Shin, Junbeom Hur, Hanjin Lee, Hyunsoo Yoon, Korea Advanced Institute of Science and Technology, Korea, Republic of

Monday 6 April, 16:40 - 18:30, Béla B

NET 10: Localization 2
NET 10.1: A New Velocity Estimation Scheme based on Spatial Correlation of Wireless Communication Channel
Woongsup Lee, Dong-Ho Cho, KAIST, South Korea

NET 10.2: A Semi Range-Based Iterative Localization Algorithm for Cognitive Radio Networks
Zhiyao Ma, Tsinghua University, China; Khaled Ben Letaief, The Hong Kong University of Science Technology, China; Wei Chen, Zhigang Cao, Tsinghua University, China

NET 10.3: Combined AOA and TOA NLOS Localization Using Nonlinear Programming in Severe Multipath Environments
Victoria Ying Zhang, Albert Kai-Sun Wong, The Hong Kong University of Science and Technology, Hong Kong

NET 10.4: Cooperative Distance Classification Using an IEEE 802.15.4-Compliant Transceiver
Andreas Willig, Matthias Kühm, Adam Wolisz, Technische Universität Berlin, Germany

NET 10.5: Cooperative Network Localization via Node Velocity Estimation
Liang Dong, Western Michigan University, United States

Monday 6 April, 16:40 - 18:30, Árpád

NET 11: Mobile and Wireless IP 2
NET 11.1: A Network Architecture for Providing Micro-mobility in MPLS/GMPLS Networks
Tomás Badan, Federal University of Goiás, Brazil; Eduardo Zagari, Rodrigo Prado, Eleri Cardozo, Maurício Magalhães, José Carrilho, Rossano Pinto, André Berenguel, Daniel Barbosa, Daniel Moraes, Thienne Johnson, State University of Campinas, Brazil; Lars Westberg, Ericsson Research, Sweden

NET 11.2: Achieving Spatial Disjointness in Multipath Routing without Location Information
Juan Jose Galvez, Pedro M. Ruiz, Antonio F. Gomez-Skarmeta, University of Murcia, Spain

NET 11.3: Adaptive Cooperation Strategy for Multiple Relays in 4G Wireless Systems

Yeejung Kim, Taehonn Kim, Sujung Kim, Youngnam Han, ICU, Korea, Republic of

NET 11.4: An Emulated IPv6 Based Self-Configuring Multi-Hop Mobile Network Testbed: Architecture and Performance Analysis
Dev Audsin, KCL, United Kingdom, Hamid Aghvami, Vasilis Friderikos, King's College London, United Kingdom

NET 11.5: Beaconing in Wireless Mobile Networks
Abbas Nayebi, Gunnar Karlsson, Royal Institute of Technology (KTH), Sweden

Tuesday 7 April, 11:10 - 13:00, Lánchíd B

NET 12: Wireless Sensor Networks 2
NET 12.1**:** Modeling of Extreme Data in Wireless Sensor Networks
Glenn Patterson, Mustafa Mehmet Ali, Concordia University, Canada

NET 12.2: On Attack-Resilient Wireless Sensor Networks with Novel Recovery Strategies
Ka-Shun Hung, Chun-Fai Law, King-Shan Lui, University of Hong Kong, Hong Kong, Ricky Kwok, Colorado State University, United States,

NET 12.3: Redeployment Based Sensing Hole Mitigation in Wireless Sensor Networks
Rabun Kosar, Bogazici University, Turkey; Ertan Onur, Delft University of Technology, Netherlands; Cem Ersoy, Bogazici University, Turkey

NET 12.4: A Sensor Network Performance Inference Algorithm Based on Passive Measurement
Yu Yang, Yongjun Xu, Xiaowei LI, Institute of Computing Technology, Chinese Academy of Sciences, China

NET 12.5: Event-to-Sink Directed Clustering in Wireless Sensor Networks
Ozgur Akan, Alper Bereketli, Middle East Technical University, Turkey

Tuesday 7 April, 11:10 - 13:00, Árpád

NET 13: Energy Efficiency in Wireless Networks 1
NET 13.1: A Framework for Power Management of Handheld Devices with Multiple Radios
Hicham Mahkoum, University of Montreal, Canada; Behcet Sarikaya, Huawei, United States; Abdelhakim Hafid, University of Montreal, Canada

NET 13.2: A MAC-Aware Energy Efficient Reliable Transport Protocol for Wireless Sensor Networks
Sandip Dalvi, Anirudha Sahoo, Ashutosh Deo, IIT Bombay, India

NET 13.3: A Novel Reliability Based Routing Protocol for Power Aware Communications in Wireless Sensor Networks
Long Tran-Thanh, Janos Levendovszky, Budapest Unversity of Technology and Ecnomics, Hungary

NET 13.4: An Energy-Efficient Cooperative MISO-based Routing Protocol for Wireless Sensor Networks
Pan Zhou, Georiga Institute of Technology , United States; Wei Liu, Wei Yuan, Wenqing Cheng, Shu Wang, Huazhong University of Science and Technology, China

NET 13.5: Energy Efficient and Delay Optimized TDMA Scheduling for Clustered Wireless Sensor Networks
Liqi Shi, Abraham Fapojuwo, The University of Calgary, Canada

Tuesday 7 April, 11:10 - 13:00, Béla B

NET 14: Wireless Ad-Hoc Networks
NET 14.1: On Minimum Data Replication for Delay-Bounded Query in Wireless Ad Hoc Networks
Jun Huang, Yuebin Bai, Beihang University, China; Xu Shao, Institute for Infocomm Research, Singapore

NET 14.2: Virtual Access Points for Disaster Scenarios
Daniel Camara, EURECOM, France; Nikolaos Frangiadakis, University of Maryland, United States; Fethi Filali, EURECOM, France; Antonio A. F. Loureiro, UFMG, Brazil; Nick Roussopoulos, University of Maryland, United States

NET 14.3: A Multi-Interface Multi-Channel Routing (MMCR) Protocol for Wireless Ad Hoc Networks
Reghu Anguswamy, Maciej Zawodniok, Sarangapani Jagannathan, Missouri S&T, United States

NET 14.4: Aproximating Size of Maximal Clique in a Node's Neighbourhood in the Ad Hoc Networks
Nihad Borovina, Sead Kreso, Faculty of Electrical Engineering, University of Sarajevo, Bosnia and Herzegowina

Tuesday 7 April, 14:30 - 16:20, Lánchíd B

NET 15: Mobile and Wireless IP 3
NET 15.1: Domain Identifiers in a Next Generation Internet Architecture
Rafael Pasquini, Luciano B. de Paula, Fábio L. Verdi, Maurício F. Magalhães, FEEC/Unicamp, Brazil

NET 15.2: DRO: Domain-Based Route Optimization Scheme for Nested Mobile Networks
Ming-Chin Chuang, Jeng Farn Lee, National Chung Cheng University, Taiwan

NET 15.3: Integrating SIP-based Network Mobility into IP Multimedia Subsystem
Wei-Kuo Chiang, An-Nie Ren, Ya-Chen Chung, National Chung Cheng University, Taiwan

NET 15.4: Location Tracking in Mobile Networks under Correlated Shadowing Effects
Kai-Jie Yang, Yuh-Ren Tsai, Institute of Communications Engineering, National Tsing Hua University, Taiwan

NET 15.5: NERON: A Route Optimization Scheme for Nested Mobile Networks
Faqir Zarrar Yousaf, Alain Tigyo, Christian Wietfeld, Dortmund University of Technology, Germany

Tuesday 7 April, 14:30 - 16:20, Árpád

NET 16: Mobility
NET 16.1: A Behavior Pattern Based Mobility Simulation Framework for Office Environments
Shiqing Shen, Ningning Cheng, Guihai Chen, Nanjing University, China

NET 16.2: Adaptive Location Update and Paging Scheme for Mobile Broadband Wireless Access Networks
Jee-Hyeon Na, Hochoong Cho, Sangho Lee, ETRI, Korea, Republic of; Yunwon Chung, Soongsil University, Korea, Republic of; Sang-Ha Kim, Chungnam National University, Korea, Republic of

NET 16.3: An Analysis of Human Mobility using Real Traces
Tiago Azevedo, Rafael Bezerra, Carlos Alberto Campos, Luís de Moraes, COPPE/UFRJ, Brazil

NET 16.4: An Efficient Framework for Local Mobility
Feng Zhong, Yang Xia, Chai Kiat Yeo, Bu Sung Lee, NTU, Singapore; Teck Meng Lim, StartHub Ltd , Singapore

NET 16.5: Analyzing Path Dynamics in Mobile Ad Hoc Networks Using a Smooth Mobility Model
Lifang Guo, Beijing University of Posts and Telecommunications, China; Khaled Harfoush, North Carolina State University, United States; Huimin Xu, Beijing University of Posts and Telecommunications, China

Tuesday 7 April, 14:30 - 16:20, Béla B

NET 17: Wireless Network Security and Privacy
NET 17.1: Employing a Novel Two Tiered Network Structure to Extend the Lifetime of WSNs
Minh Thiep Ha, Trong Duc Le, Hyunseung Choo, Sungkyunkwan University, Korea, Republic of

NET 17.2: FKM: A Fingerprint-based Key Management Protocol for SoC-based Sensor Networks
Xiaoguang Niu, Institute of Computing Technology, Chinese Academy Sciences, China; Yanmin Zhu, Imperial
College of London, United Kingdom; Li Cui, Institute of Computing Technology, Chinese Academy Sciences, China;
Lionel M. Ni, Hong Kong University of Science and Technology, Hong Kong

NET 17.3: Secure Hierarchical Data Aggregation in Wireless Sensor Networks
Julia Albath, Sanjay Madria, Missouri University of Science and Technology, United States

NET 17.4: SWCA: A Secure Weighted Clustering Algorithm in Wireless Ad Hoc Networks
Yingpei Zeng, Nanjing University, China; Jiannong Cao, The Hong Kong Polytechnic University, Hong Kong;
Shanqing Guo, Shandong University, China; Kai Yang, Li Xie, Nanjing University, China

Tuesday 7 April, 16:40 - 18:30, Árpád

NET 18: Wireless Multicasting, Routing 1
NET 18.1: Local Scheduling Scheme for Opportunistic Routing
Yanhua Li, Yuan-An Liu, Beijing University of Posts and Telecommunications, China; Li Li, National University of
Defense Technology, China; Pengkui Luo, University of Minnesota, United States

NET 18.2: LORP: A Load-balancing Based Optimal Routing Protocol for Sensor Networks with Bottlenecks
Lijie Xu, Yangzhou University, China; Guihai Chen, Nanjing University, China; Xinchun Yin, Yangzhou University,
China; Panlong Yang, Nanjing University, China; Baijian Yang, Ball State University, United States

NET 18.3: Optimal Scheduling and Routing in WirelessNetworks: A New Approach
Naghmeh S. Moayedian, S. Jamaloddin Golestani, Isfahan University of Technology, Iran, Islamic Republic of

NET 18.4: Performance Comparison of Flat and Cluster-Based Hierarchical Ad Hoc Routing with Entity and Group
Mobility
Mingyang Zhang, Peter H. J. Chong, Nanyang Technological Univ, Singapore

NET 18.5: Virtual Domain and Coordinate Routing in WirelessSensor Networks
Chih-Cheng Hsu, Cheng-Fu Chou, Ching-Ju Lin, Chien-Chun Hung, National Taiwan University, Taiwan

Tuesday 7 April, 16:40 - 18:30, Béla B

NET 19: Capacity, Throughput, Outage, Coverage
NET 19.1: Performance Analysis of Two-Tier Wireless Mesh Networks for Achieving Delay Minimisation
Geyong Min, Yulei Wu, University of Bradford, United Kingdom; Keqiu Li, Dalian University of Technology, China;
Ahmed Y. Al-Dubai, Napier University, United Kingdom

NET 19.2: Area Throughput and Energy Consumption for Clustered Wireless Sensor Networks
Flavio Fabbri, University of Bologna, Italy; Janne Riihijarvi, RWTH Aachen University, Germany; Chiara Buratti,
Roberto Verdone, University of Bologna, Italy; Petri Mahonen, RWTH Aachen University, Germany

NET 19.3: Coverage Control and Irregular Radio Propagation in Wireless Sensor Networks
Ramzi Bellazreg, Mohamed Hamdi, Noureddine Boudriga, Communication Networks and Security Research Lab.,
Tunisia

NET 19.4: Coverage-Aware Sleep Scheduling for Cluster-based Sensor Networks
Fangyang Shen, Northern New Mexico College, United States; Min-Te Sun, National Central University, Taiwan;
Chunlei Liu, Valdosta State University, United States; Andres Salazar, Northern New Mexico College, United States

NET 19.5: Field Test and Experimental Characterization of 5GHz RF Tranceivers for Coverage Extension
Il-Gu Lee, Jung-Bo Son, Sok-Kyu Lee, ETRI, Korea, Republic of

Tuesday 7 April, 16:40 - 18:30, Pest

NET 20: Energy Efficiency in Wireless Networks 2
NET 20.1: Energy Efficient Adaptive Sensing for Dynamic Coverage in Wireless Sensor Networks
Hui Ling, Taieb Znati, University of Pittsburgh, United States

NET 20.2: Energy Efficient Min-Max Spatial Monitoring with Wireless Sensor Networks
Periklis Liaskovitis, Curt Schurgers, University of California, San Diego, United States

NET 20.3: Energy Savings Achievable in Connection Preserving Energy Saving Algorithms
Seh Chun Ng, Guoqiang Mao, University of Sydney, Australia; Brian Anderson, Australian National University, Australia

NET 20.4: Maximizing the Lifetime of Wireless Sensor Networks through Intelligent Clustering and Data Reduction Techniques
Mario Cordina, Carl James Debono, University of Malta, Malta

NET 20.5: Optimal Communication-Computation Tradeoff for Wireless Multimedia Sensor Network Lifetime Maximization
Muhammad Tahir, Ronan Farrell, National Univ. of Ireland Maynooth, Ireland

 Wednesday 8 April, 9:00 - 10:50, Lánchíd B

NET 21: Heterogeneous Networks
NET 21.1: A Distributed Network Selection Scheme in Next Generation Heterogeneous Wireless Networks
Pengbo Si, Beijing University of Posts Telecommunications, China; F. Richard Yu, Carleton University, Canada; Hong Ji, Beijing University of Posts Telecommunications, Canada; Victor Leung, The University of British Columbia, Canada

NET 21.2: An Optimization Framework for Heterogeneous Access Management
Jörg Bühler, Gerhard Wunder, Fraunhofer German-Sino Lab for Mobile Communications (MCI), Germany

NET 21.3: Median Based Network Selection in Heterogeneous Wireless Networks
Ying Wang, Lei Zheng, Jun Yuan, Wensheng Sun, Beijing University of Posts and Telecommunications, China

NET 21.4: Radio Access Network Selection in a Heterogeneous Communication Environment
Weizhi Luo, Eliane Bodanese, Queen Mary, University of London, United Kingdom

NET 21.5: Implementation and analysis of load balancing switch over for hybrid wireless network
Farukh Nadeem, Max Henkel, Bernhard Geiger, Erich Leitgeb, Muhammad Saleem Awan, TUG, Austria; Gorazd Kandus, JSI, Slovenia

Wednesday 8 April, 9:00 - 10:50, Árpád

NET 22: Mesh Networks
NET 22.1: Gateway Selection in Backbone Wireless Mesh Networks
Usman Ashraf, Université de Toulouse/LAAS-CNRS, France; Slim Abdellatif, Guy Juanole, LAAS-CNRS, France

NET 22.2: Optimization Models For Planning Wireless Mesh Networks: A Comparative Study
Djohara Benyamina, Abdelhakim Hafid, Michel Gendreau, University of Montreal, Canada; N Hallam, University of Nottingham, United Kingdom

NET 22.3 Interface Placement in Constructing Widest Spanning Tree for Multi-Channel Multi-Interface Wireless Mesh Networks
Hon Sun Chiu, Kwan L. Yeung, King-Shan Lui, The University of Hong Kong, Hong Kong

NET 22.4: A Clean-Slate Architecture for Reliable Data Delivery in Wireless Mesh Networks
Sherif El Rakabawy, Christoph Lindemann, University of Leipzig, Germany

NET 22.5: Low-Rate WPAN Mesh Network – An Enabling Technology for Ubiquitous Networks
Chunhui Zhu, Samsung Electronics, United States; Jianliang Zheng, EMC Corp., United States; Chiu Ngo, Samsung Electronics, United States; Taerim Park, Samsung Electronics, South Korea; Rui Zhang, Myung Lee, City University of New York, United States

Wednesday 8 April, 9:00 - 10:50, Béla B

NET 23: Wireless Multicasting, Routing 2
NET 23.1: AMIRA: Interference-aware Routing Using Ant Colony Optimization in Wireless Mesh Networks
Fawaz Bokhari, Gergely Zaruba, University of Texas at Arlington, United States

NET 23.2: Circle Path Based Sink Location Service for Geographic Routing Scheme
Fucai Yu, Euisin Lee, Taehee Kim, Jeongcheol Lee, Sang-Ha Kim, Chungnam National University, Korea, Republic of

NET 23.3: Context-Aware Geographic Routing for Sensor Networks with Routing Holes
Jiaxi You, Dominik Lieckfeldt, Frank Reichenbach, Dirk Timmermann, University of Rostock, Germany

NET 23.4: Joint Channel Assignment and Routing in Real Time Wireless Mesh Network
Xiaoguang Li, Athlone Institute of Technology, Ireland; Changqiao Xu, Chinese Academy of Sciences, China

NET 23.5: Link Estimation Methods for Routing over FWA Mesh Network
Jun Nishioka, Satoru Yamano, Katsuhiko Yamada, NEC, Japan

Wednesday 8 April, 11:10 - 13:00, Lánchíd B

NET 24: **Multimedia QoS and Traffic Management 2**
NET 24.1: Performance Analysis of TCP-AFC for Satellite-based Networks
Nikhil Kothari, Bhavika Gambhava, Dharmsinh Desai University, India; K. S. Dasgupta, Space Application Centre, India

NET 24.2: Performance Evaluation of Wireless Communication Networks for Multi-Traffic with Multi-Channel
Zhanyou Ma, Yanshan University, China; Wuyi Yue, Konan University, Japan; Naishuo Tian, Yanshan University, China

NET 24.3: The Effectiveness of QoS Constrained AODV Routing for Voice Support in Multi-hop IEEE802.11 Mobile Ad Hoc Networks
Liqi Shi, Abraham Fapojuwo, The University of Calgary, Canada; Neil Viberg, Wendy Hoople, Norbert Chan, General Dynamics Canada, Canada

NET 24.4: Traffic-based Dynamic Routing for Wireless Sensor Networks
Mukundan Venkataraman, Mainak Chatterjee, University of Central Florida, United States; Kevin Kwiat, Air Force Research Laboratory, United States

NET 24.5: Traffic Estimation from Wireless Environment Sensing
Lionel Gueguen, Berna Sayrac, Orange Labs, France

Wednesday 8 April, 11:10 - 13:00, Árpád

NET 25: Large Scale and Mesh Networks
NET 25.1: A Data Dissemination Model Base on Content-based Publish/Subscribe Paradigm in Large-Scale Wireless Sensor Networks
Min-Sook Jin, Hosung Park, Euisin Lee, Soochang Park, Sang-Ha Kim, Chungnam National University, South Korea

NET 25.2: Communication Scheme Independent of Publishers and Subscribers for Large-Scale Sensor Applications
Soochang Park, Euisin Lee, Fucai Yu, Min-Sook Jin, Sang-Ha Kim, Chungnam National University, South Korea

NET 25.3: Frequency Planning in IEEE 802.16j Networks: An Optimization Framework and Performance Analysis
Fernando Gordejuela-Sanchez, David Lopez-Perez, Jie Zhang, University of Bedfordshire, United Kingdom

NET 25.4: Signaling Analysis for Multi-Radio Management
Christian M. Mueller, Universität Stuttgart, Germany; Lutz Ewe, Rolf Sigle, Alcatel-Lucent Bell Labs, Germany

NET 25.5: Interference Protection versus Spatial Reuse in Wireless Networks
Harald Burchardt, Technical University of Munich, Germany; Peter Omiyi, University College London, United Kingdom; Gunther Auer, DOCOMO Euro-Labs, Germany; Harald Haas, Sinan Sinanovic, University of Edinburgh, United Kingdom

Wednesday 8 April, 11:10 - 13:00, Béla B

NET 26: Wireless Multicast and Streaming
NET 26.1: Improving QoS in Multicasting Through Adaptive Redundancy
Tolga Numanoglu, Wendi Heinzelman, University of Rochester, United States

NET 26.2: Multicast Capacity of Multi-Channel Multihop Wireless Networks
Vishwanath Ramamurthi, Sree Krishna Chaitanya Vadrevu, Anurag Chaudhry, University of California, Davis, United States; Manav R. Bhatnagar, UniK – University Graduate Center, University of Oslo, Norway

NET 26.3: RBMulticast: Receiver Based Multicast for Wireless Sensor Networks
Chen-Hsiang Feng, Wendi Heinzelman, University of Rochester, United States

NET 26.4: Secure Framework for Multipath Multimedia Streaming over Wireless Ad-Hoc Network
Binod Vaidya, Hyuk Lim, Gwangju Institute of Science and Technology, Korea, Republic of

NET 26.5: Utilization of Multi-Radio Access Networks for Video Streaming Services
Ali Yaver, Royal Institute of Technology (KTH), Sweden; Georgios Koudouridis, Huawei Technologies Sweden R&D Center, Sweden

Wednesday 8 April, 14:30 - 16:20, Lánchíd B

NET 27: Relay Networks 2
NET 27.1: Bursty Wideband Relay Networks
Tony Q.S. Quek, Institute for Infocomm Research, Singapore; Hyundong Shin, Kyung-Hee University, Korea, Republic of

NET 27.2: Capacity Enhancement with Relay Station Placement in Wireless Cooperative Networks
Bin Lin, University of Waterloo, Dalian Maritime University, Canada; Mehri Mehrjoo, Pin-Han Ho, Liang-Liang Xie, Xuemin (Sherman) Shen, University of Waterloo, Canada

NET 27.3: Energy-Aware Post Settings: A Study on Performance Gain by Adding Relaying Nodes in Wireless Ad-Hoc Networks
Eun-Sook Sung, Miodrag Potkonjak, UCLA, United States

NET 27.4: Wireless Multihop Transmission with Buffering in Neighbor Sensor Nodes for Shorter Delay
Daiki Sakamoto, Hiroaki Higaki, Tokyo Denki University, Japan

NET 27.5: Indoor radio network optimization using multi level hierarchic method
Lajos Nagy, BUTE, Hungary

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NET 28: Mobility and Handoff Management 2
NET 28.1: An Energy-Efficient Handover Scheme with Geographic Mobility Awareness in WiMAX-WiFi Integrated Networks
Wen-Hsin Yang, You-Chiun Wang, Yu-Chee Tseng, National Chiao-Tung University, Taiwan; Bao-Shuh P. Lin, Industrial Technology Research Institute, Taiwan

NET 28.2: Anonymous Handover Mechanism for Service Mobility in Heterogeneous Wireless Networks
Toshiyuki Fujisawa, Japan Broadcasting Corporation, Japan; Masaki Inamura, Toshiaki Tanaka, KDDI R&D Laboratories Inc., Japan

NET 28.3: Design and Implementation of a Network-Centric Micro-Mobility Architecture
Eduardo Zagari, Rodrigo Prado, State University of Campinas - Unicamp, Brazil; Tomás Badan, Federal University of Goiás, Brazil; Eleri Cardozo, Maurício Magalhães, José Carrilho, André Berenguel, Daniel Moraes, Tiago Dolphine, Thienne Johnson, State University of Campinas - Unicamp, Brazil; Lars Westberg, Ericsson Research, Sweden

NET 28.4: Evaluation of Session Handoffs in a Heterogeneous Mobile Network for Pareto-based Packet Arrivals
Kumudu Munasinghe, Abbas Jamalipour, University of Sydney, Australia

NET 28.5: A Hybrid SS-ToA Wireless NLoS Geolocation Based on Path Attenuation: Mobile Position Estimation
Bamrung Tau Sieskul, Feng Zheng, Thomas Kaiser, Institute of Communication Technology, Germany

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NET 29: Wireless Ad-Hoc Networks
NET 29.1: A New Routing Algorithm for Sparse Vehicular Ad-Hoc Networks with Moving Destinations
Mohsen Ghaffari, Farid Ashtiani, Sharif University of Technology, Iran, Islamic Republic of

NET 29.2: Lifetime Benefits through Load Balancing in Homogeneous Sensor Networks
Daniele Puccinelli, University of Applied Science of Southern Switzerl, Switzerland; Martin Haenggi, University of Notre Dame, United States

NET 29.3: On the Scalability Problem of Highway Ad-Hoc Network
Florent Kaisser, Véronique Vèque, University of Paris-Sud - IEF, France

NET 29.4: Network Coding-Aware Flow Control in Wireless Ad-Hoc Networks
Hee-Tae Roh, Jang-Won Lee, Yonsei University, Korea, Republic of

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NET 30: Multimedia QoS and Traffic Management 3
NET 30.1: Effectiveness of H.264 Error Resilience Techniques in 802.11e WLANs
Richard MacKenzie, University of Leeds, United Kingdom; David Hands, British Telecommunications PLC, United Kingdom; Timothy O'Farrell, Swansea University, United Kingdom

NET 30.2: Flexible Configuration in Power and Data Rate for QoS Guarantees in Multi-hop Wireless Networks using Goal Programming
John Paul Torregoza, Won-Joo Hwang, Inje University, Korea, Republic of

NET 30.3: Improving TCP Performance in Wireless Networks by Classifying Causes of Packet Losses
Parag Kulkarni, Mahesh Sooriyabandara, Lu Li, Toshiba Research Europe Ltd., United Kingdom

NET 30.4: PAWES: A Flow Distribution Algorithm Based on Priority and Weight Self-Production
Yi Sun, Institute of Computing Technology, China; Stephen Herborn, National ICT Australia, Australia; Yuming Ge, Jue Yuan, Institute of Computing Technology, China; Jihua Zhou, Institute of Computing Technology, China; Dongdong Chen, SINOSURE, China

NET 30.5: Modelling of Heterogeneous Wireless Networks under Batch Arrival Traffic with Communication Locality
Yulei Wu, Geyong Min, University of Bradford, United Kingdom; Guojun Wang, Central South University, China; Jianmin Jiang, University of Bradford, United Kingdom

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NET 31: MANET
NET 31.1: A Fully Distributed Node Allocation Scheme for Partition Protection in MANET
Ting Wang, Chor Ping Low, Nanyang Technological University, Singapore

NET 31.2: An Adaptive Genetic Fuzzy Control Gateway Discovery to Interconnect Hybrid MANETs
Antonio Jesus Yuste Delgado, Universidad of Jaen, Spain; Francisco David Trujillo Aguilera, Alicia Triviño, Eduardo Casilari Perez, Antonio Diaz-Estrella, Universidad of Malaga, Spain

NET 31.3: An Efficient Group Partition Prediction Scheme for MANETs
Yan Zhang, Chor Ping Low, Jim Mee Ng, Ting Wang, Nanyang Technological University, Singapore

NET 31.4: Efficient Dissemination Techniques for MANET Routing Control Messages
Phong Khuu, Brian Loop, Gregory Sadosuk, Michael Weber, Kyle Guan, Reza Ghanadan, Jessica Hsu, BAE Systems - EI&S, United States

NET 31.5: Graph Theoretic Models and Tools for the Analysis of Dynamic Wireless Multihop Networks
Guoqiang Mao, The University of Sydney, Australia; Brian Anderson, The Australian National University, Australia

Wednesday 8 April, 16:40 - 18:30, Béla B

NET 32: Network Coding and Game Theory
NET 32.1: A Queueing Model for Wireless Tandem Network Coding
Farid Ashtiani, Mohammad Bagher Iraji, Mohammad H. Amerimehr, Sharif University of Technology, Iran, Islamic Republic of

NET 32.2: Reliable Wireless Broadcast with Random Network Coding for Real-time Applications
Yoshihisa Kondo, Hiroyuki Yomo, Shinji Yamaguchi, Peter Davis, Ryu Miura, Sadao Obana, ATR, Japan

NET 32.3: Utility and Game-Theory Based Network Selection Scheme in Heterogeneous Wireless Networks
Chung-Ju Chang, Tsung-Li Tsai, National Chiao Tung University, Taiwan; Yung-Han Chen, Industrial Technology Research Institute, Taiwan

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NET 33: Selected topics in Wireless Systems
NET 33.1: Power-Aware Recovery for Geographic Routing
Amit Dvir, Ben-Gurion University of the Negev, Israel; Niklas Carlsson, University of Calgary, Canada

NET 33.2: Contentious Feedback in Cellular Systems
Alex Reznik, Eldad Zeira, InterDigital, United States

NET 33.3: Novel WLAN Coverage Area Estimation Leveraging Transition of Cellular Signal using Multi-mode Mobile Terminal for Heterogeneous Networks
Haruki Izumikawa, Yoji Kishi, Riichiro Nagareda, KDDI R&D Laboratories, Japan