



## Services and Applications Track

Monday 6 April, 11:10 - 13:00, István

### **SVS 1: Location-Aware Networks**

SVS 1.1: An Energy-Aware Autonomic Architecture for Localization in Ubiquitous Networks  
Mathieu Bouet, Shahab Gashti, Guy Pujolle, University of Paris 6, France

SVS 1.2: An Enhanced Toa-Based Wireless Location Estimation Algorithm for Dense NLOS Environments  
Robin Wentao Ouyang, Albert Kai Sun Wong, The Hong Kong University of Science and Technology, Hong Kong

SVS 1.3: Enhancing the Efficiency of Active RFID-based Indoor Location Systems  
Rafael de Amorim Silva, Paulo André da Silva Gonçalves, CIn-UFPE, Brazil

SVS 1.4: Simple Localization with Sensors on Grid  
Chiara Taddia, Lepida S.p.A., Italy; Gianluca Mazzini, University of Ferrara, Italy

SVS 1.5: Improved MDS-Based Multi-Target Tracking Algorithm  
Davide Macagnano, Giuseppe Thadeu Freitas de Abreu, Centre for Wireless Communications - University of Oulu, Finland

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### **SVS 2: Vehicular Networks**

SVS 2.1: A Novel Social Cluster-based P2P Framework for Integrating VANETs with the Internet  
Sung-Han Lin, Junn-Yen Hu, Cheng-Fu Chou, National Taiwan University, Taiwan; Ing-Chau Chang, National Changhua University of Education, Taiwan; Chien-Chun Hung, National Taiwan University, Taiwan

SVS 2.2: A Novel Data Dissemination Method for Vehicular Networks with Rateless Codes  
Pasquale Cataldi, Andrea Tomatis, Politecnico di Torino, Italy; Gianluca Grilli, University of Rome "Tor Vergata", Italy; Mario Gerla, University of California, Los Angeles, United States

SVS 2.3: Distributed Misbehavior Detection in VANETs  
Mainak Ghosh, Indian Institute of Technology Kharagpur, India; Anitha Varghese, Arzad Kherani, General Motors India Science Lab, India; Arobinda Gupta, Indian Institute of Technology Kharagpur, India

SVS 2.4: Performance Analysis of the Vehicular Delay Tolerant Network  
Dusit Niyato, Ping Wang, Nanyang Technological University, Singapore; Joseph Chee Ming Teo, Institute for Infocomm Research, Singapore

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### **SVS 3: Ad-Hoc Networks**

SVS 3.1: A Multicast Approach for Peer-to-Peer Content Distribution in Mobile Ad Hoc Networks  
Sidney Santos Doria, Marco Aurelio Spohn, Federal University of Campina Grande, Brazil

SVS 3.2: Path Selection Based On Service Curve Measurement In MANETs  
Hui Yang, Stephen Patek, University of Virginia, United States

SVS 3.3: Hierarchical Adaptive Location Service Protocol for Mobile Ad Hoc Network  
Sabbir Ahmed, Gour Karmakar, Joarder Kamruzzaman, Monash University, Australia

SVS 3.4: A Novel Team-Centric Peer Selection Scheme for Distributed Wireless P2P Networks  
Xi Li, Hong Ji, Beijing University of Posts and Telecommunications, China; F. Richard Yu, Carleton University, Canada; Ruiming Zheng, Yi Li, Beijing University of Posts and Telecommunications, China

SVS 3.5: Topology Mismatch Avoidable Cross-layer Protocol for P2P File Discovery in MANETs  
Ting Li, Hong Ji, Jingqing Mei, Yi Li, Chao Hu, Key Lab of Universal Wireless Communications, Ministry of Education, Beijing University of Posts and, China

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#### **SVS 4: Sensor Networks**

SVS 4.1: Analyzing the Optimal Use of Bloom Filters in Wireless Sensor Networks Storing Replicas  
Christine Jardak, Janne Riihijärvi, Petri Mähönen, RWTH Aachen University, Germany

SVS 4.2: Mesh Networking for Seismic Monitoring – The Sumatran cGPS Array Case Study  
Hoang-Ha Tran, Kai-Juan Wong, Nanyang Technological University, Singapore

SVS 4.3: Centralized Mobile SensorGroup for Exploring Border of Target Area  
Kuen-Liang Sue, and Jing-Wei Lin, Department of Information Management, National Central University, Taiwan

SVS 4.4: Cost-Aware Reactive Monitoring in Resource-Constrained Wireless Sensor Networks  
Mohammad S. Talebi, IPM, Iran, Islamic Republic of; Ahmad Khonsari, University of Tehran, Iran, Islamic Republic of; Reyhaneh Jabarvand, IPM, Iran, Islamic Republic of

SVS 4.5: VStore: Cooperative Storage in Vehicular Sensor Networks for Mobile Surveillance  
Xu Li, Hongyu Huang, Shanghai Jiao Tong University, China; Wei Shu, University of New Mexico, United States; Minglu Li, Min-You Wu, Shanghai Jiao Tong University, China

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#### **SVS 5: Multimedia Networks 1**

SVS 5.1: Cross-Layer QoS Provisioning for Multimedia Transmissions in Cognitive Radio Networks  
Saqib Ali, F. Richard Yu, Carleton University, Canada

SVS 5.2: Dynamic Rate Control for Media Streaming in High-Speed Mobile Networks  
Masayuki Hiromoto, Kyoto University, Japan; Hiroshi Tsutsui, Osaka University, Japan; Hiroyuki Ochi, Kyoto University, Japan; Tomoyuki Osano, Norihiro Ishikawa, NTT DoCoMo, Inc., Japan; Yukihiko Nakamura, Ritsumeikan University, Japan

SVS 5.3: Implementing a Cooperative MAC Protocol for Wireless Video Multicast  
Ozgu Alay, Zhe Xu, Thanasis Korakis, Yao Wang, Shivendra Panwar, Polytechnic Institute of NYU, United States

SVS 5.4: Progressive Display Method for Interactive Mobile 3D Graphics  
Mouguang Lin, School of Information Science and Technology, Sun Yat-Sen University, China; Xiaonan Luo, Key Laboratory of Digital Life (Sun Yat-Sen University), Ministry of Education, China

SVS 5.5: The Speech Quality Analysis of Push-to-Talk Services  
Kun-Yi Tsai, Yung-Feng Lu, Ai-Chun Pang, Tei-Wei Kuo, National Taiwan University, Taiwan

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### **SVS 6: Multimedia Networks 2**

SVS 6.1: Performance Evaluation of Distributing Real-time Video over Concurrent Multipath  
Changqiao Xu, Enda Fallon, Yuansong Qiao, Athlone Institute of Technology, Ireland; Gabriel-Miro Muntean, Dublin City University, Ireland; Xiaoguang Li, Austin Hanley, Athlone Institute of Technology, Ireland

SVS 6.2: Time-sliced Scalable Source Partition Streaming for Flexible Power Management in Digital Audio/Video Broadcasting

Ching-Yung Chen, National Kaohsiung First University of Science Technology, Taiwan; Fang-Chu Chen, Ce-Min Fang, Yi-Ting Wang, Industrial Technology Research Institute, Taiwan; Chih-Chun Feng, Novatek Microelectronics Corp., Taiwan

SVS 6.3: Service-Oriented Multimedia Delivery in Pervasive Space

Zhuzhong Qian, Nanjing University, China; Minyi Guo, The University of Aizu, Japan; Sheng Zhang, Sanglu Lu, Nanjing University, China

SVS 6.4: Regulatory Challenges to the Evolving NGN World

Malik Muhammad Imran Patal, Zeng Jianqiu, Beijing University of Posts and Telecommunications, China

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### **SVS 7: Resource Management 1**

SVS 7.1: The Economy of Redundancy in Wireless Multi-Hop Networks

Geir Egeland, University of Stavanger, Norway; Paal E. Engelstad, Telenor Research and Innovation, Norway

SVS 7.2: Personalization-based Optimization of Real-Time Service Delivery in a Multi-Device Environment

Marcus Kuhnen, Daniel Kraft, Anett Schülke, Jochen Bauknecht, Johannes Häussler, Mario Lischka, NEC Europe Ltd., Germany

SVS 7.3: Architectural Optimization of Decomposition Algorithms for Wireless Communication Systems

Ali Irturk, Bridget Benson, University of California, San Diego, United States; Nikolay Laptev, University of California, Los Angeles, United States; Ryan Kastner, University of California, San Diego, United States

SVS 7.4: Dynamic Virtual Backbone Management for Service Discovery in Wireless Mesh Networks

Martin Krebs, RWTH Aachen University, Germany

SVS 7.5: Efficient Resource Allocation Strategies for Multicast/Broadcast Services in 3GPP Long Term Evolution Single Frequency Networks

Vihang Kamble, Suresh Kalyanasundaram, Vinod Ramachandran, Motorola India Pvt Ltd, India; Rajeev Agrawal, Motorola Inc, United States

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### **SVS 8: Resource Management 2**

SVS 8.1: Priority Based Selection to Improve Contents Consistency for Mobile Overlay Network

Zhou Su, Jiro Katto, Yasuhiko Yasuda, Waseda University, Japan

SVS 8.2: A Novel Managed Wireless Mesh Architecture for Community Service Platform

Masugi Inoue, Ved Kafle, Masaaki Ohnishi, NICT, Japan; Hiroaki Morino, Shibaura Institute of Technology, Japan; Tohru Sanefuji, Nassua Solutions Corp., Japan

SVS 8.3: Quality of Service Consideration for the Wireless Telemedicine and e-health Services

Anna Zvikhachevskaya, PhD student, United Kingdom; Garik Markarian, Dr, United Kingdom; and Luydmila Mihailova, Dr, United Kingdom

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**SVS 9: Trust, Authentication, and Privacy**

SVS 9.1: Context-Aware Trust and Privacy Application for Mobile Identification System

Nuno Pratas, Puri Anggraeni, Satya Wardana, Neeli Rashmi Prasad, Center for TeleInfrastruktur, Aalborg University, Denmark; António Rodrigues, Instituto Telecomunicações, Instituto Superior Técnico, Technical University of Lisbon, Portugal; Ramjee Prasad, Center for TeleInfrastruktur, Aalborg University, Denmark

SVS 9.2: Lightweight Broadcast Authentication Protocols Reconsidered

Shigenori Yamakawa, Chuo University, Japan; Yang Cui, Kazukuni Kobara, National Institute of Advanced Industrial Science Technology (AIST), Japan; Hideki Imai, Chuo University / National Institute of Advanced Industrial Science and Technology (AIST), Japan

SVS 9.3: Reputation-based Content Dissemination for User Generated Wireless Podcasting

Liang Hu, Lars Dittmann, Technical University of Denmark, Denmark; Jean-Yves Leboudec, Swiss Federal Institute of Technology, Lausanne, Switzerland

SVS 9.4: Mapping Third Party Call Control and Session Handoff in SIP Mobility to Content Sharing and Session Handoff in the Web Browsing Context

Michael Adeyeye, Neco Ventura, University of Cape Town, South Africa; David Humphrey, Seneca College, Toronto, Canada

SVS 9.5: IP-Based Overlay Signaling for Seamless Service Roaming in Heterogeneous Networks

Kai Daniel, Thang Tran, Christian Wietfeld, Dortmund University of Technology, Germany