

MONDAY, August 23, 2010

Pulkovskaya Park Inn, Room N

09:00 - 9:30 Opening and welcome

9:30 - 10:30 Invited talk / Joint session for ruSMART and NEW2AN

Agent and Mining Technologies for Smart Space: Perspectives and Challenges, Vladimir Gorodetsky, SPIIRAS, Russia

10:30 - 11:00 Coffee break NEW2AN/ruSMART

11:00 - 12:30 Session 1: Smart Spaces Use Cases I

Extending Context Spaces Theory by Proactive Adaptation, Andrey Boytsov and Arkady Zaslavsky (Luleå Technical University, Sweden)

Context-Awareness Enabling New Business Models in Smart Spaces, Boris Moltchanov, Christian Mannweiler, and Jose Simoes (Telecom Italia, Italy, University of Kaiserslautern and Fraunhofer FOKUS, Germany)

A Middleware Architecture for Safety Critical Ambient Intelligence Applications, Antonio Coronato and Giuseppe De Pietro (ICAR-CNR, Italy)

12:30 - 13:30 Lunch NEW2AN/ruSMART

13:30 - 14:30 Session 2: Smart Spaces Use Cases II

Ranking Algorithm by Contacts Priority for Social Communication Systems, Natalia Dudarenko, Jewel Rana, and Kare Synnes (Luleå Technical University, Sweden)

Cryp: Multi-Faceted Activity-Infused Presence in Emerging Social Networks, Saguna, Arkady Zaslavsky, and Dipanjan Chakraborty (Monash University, Australia, Lulea University of Technology, Sweden, and IBM Research, India)

14:30 - 15:00 Coffee break NEW2AN/ruSMART

15:00 - 17:30 Session 3: Smart-M3 Platform

Multichannel System of Audio-Visual Support of Remote Mobile Participant at E-Meeting, Alexander Ronzhin, V.Yu Budkov, and Alexey A. Karpov (SPIIRAS, Russia)

On-the-Fly Ontology Matching in Smart Spaces: A Multi-model Approach, Alexander Smirnov, Alexey Kashevnik, Nikolay Shilov, Sergey Balandin, Ian Oliver, and Sergey Boldyrev (Nokia Research Center and Nokia, Finland, SPIIRAS, Russia)

Access Control in Personal Localized Semantic Information Spaces, Alexey Koren and Alexander Buntakov (State University of Aerospace Instrumentation, Russia)

Integration of an Answer Set Engine to Smart-M3, Vesa Luukkala and Jukka Honkola (Nokia and Nokia Research Center, Finland)

A Video Monitoring Model with a Distributed Camera System for the Smart Space, Alexander Ronzhin, Maria Prischepa, and Alexey Karpov (SPIIRAS, Russia)

18:00 Departure to social event NEW2AN/ruSMART

TUESDAY, August 24, 2010

Pulkovskaya Park Inn, Room N

09:00 - 9:15 Opening and welcome

9:15 - 10:00 Invited talk / Joint session for ruSMART and NEW2AN

Intelligent Transportation Systems from Cyber Physical Systems Perspective, Alexey Vinel (St.Petersburg Institute for Informatics and Automation of Russian Academy of Sciences, SPIIRAS, Russia)

10:00 – 10:30 Coffee Break

NEW2AN 2010, room N

10:30 - 12:40 Session 1: Performance Evaluation

Evaluation of Multi-service CDMA Networks with Soft Blocking, Villy B. Iversen (Technical University of Denmark, Denmark)

Design of MPLS over DWDM Architecture for Unicast and Anycast Flows, Jakub Gladysz and Krzysztof Walkowiak (Wroclaw University of Technology, Poland)

Comparative Analysis of Sleep Mode Control Algorithms for Contemporary Metropolitan Area Wireless Networks, Alexey Anisimov, Sergey Andreev, Olga Galinina, and Andrey Turlikov (State University of Aerospace

ruSMART 2010, room X

10:30 - 12:40 Session 4: Smart Spaces Solutions

Physical Approach in Smart Homes: A Proposition and a Prototype, Michele Dominici, Giulio Zecca, Frederic Weis, and Michel Banatre (INRIA, France)

SMEO: A Platform for Smart Classrooms with Enhanced Information Access and Operations Automation, Akshey Jawa, Sudip Datta, Sujeeth Nanda, Vishal Garg, Vasudeva Varma, Suresh Chande, and Murali Krishna Punaganti Venkata (International Institute of Information Technology, India, and Nokia Research Center, Finland)

Creative Approach to the Design and

<p>Instrumentation and Speech Technology Center, Russia, Tampere University of Technology, Finland)</p> <p>Determining Normalized Measure of Dispersion for Evaluating the Performance of IEEE 802.11, Faisal Iradat and Sayeed Ghani (Institute of Business Administration, Pakistan)</p> <p>Development of a System to Promote Eco-Driving and Safe-Driving, Ryosuke Ando, Yasuhide Nishihori, and Daisuke Ochi (Toyota Transportation Research Institute and Trans Field, Inc., Japan)</p>	<p>Prototyping of Experimental Smart Spaces, Case Studies from the Interactive Environments Minor, Tomasz Jaskiewicz, Walter A. Aprile, and Aadjan van der Helm (TU Delft, The Netherlands)</p> <p>Event Recognition via Energy Efficient Voting for Wireless Sensor Networks, Mohamed Baqer (University of Bahrain, Bahrain)</p>
<p>12:40 – 13:40 Lunch NEW2AN/ruSMART</p>	
<p>NEW2AN 2010, room N</p> <p>13:40 – 15:50 Session 2: Performance Modeling</p> <p>Oligopoly Game Modeling for Cognitive Radio Environments, Ligia Cremene, D. Dumitrescu, and Reka Nagy (Technical University of Cluj-Napoca and Babes-Bolyai University, Romania)</p> <p>Reducing the Number of States for Markovian Model of Optical Slotted Ring Network, Mateusz Nowak and Piotr Pecka (Institute of Theoretical and Applied Informatics, Polish Academy of Sciences, Poland)</p> <p>Performance Modelling of Automatic Identification System with Extended Field of View, Troels Laursen, Hans Peter Mortensen, Nikolaj Bisgaard Pedersen, Ulrik Wilken Rasmussen, Tatiana K. Madsen, and Jens Dalsgaard Nielsen (Aalborg University, Denmark)</p> <p>Performance Measures Computation for a Single Link Loss Network with Unicast and Multicast Traffics, Irina Gudkova and Olga Plaksina (Peoples' Friendship University of Russia, Russia)</p> <p>Realization of a Method of Matrix-Geometric Progression, Yuri Ryzhikov (SPIIRAS, Russia)</p> <p>15:50 – 16:20 Coffee break NEW2AN</p> <p>16:20 – 18:40 Session 3: Delay-/disruption-tolerant networking and overlay systems</p> <p>Mobility Pattern Based Routing Algorithm for Delay/Disruption Tolerant Networks, ManKyu Park, SeokHong Min, SangHo So, DeockGil Oh, ByungChul Kim, and JaeYong Lee (ETRI and Chungnam National University, Korea)</p>	

Heuristic Congestion Control for Message Deletion in Delay Tolerant Network, Lertluck Leela-amornsinsin and Hiroshi Esaki (University of Tokyo, Japan)

The FDPOO: A Flexible Delivering Platform with At-One-time and On-Time Guarantees in Opportunistic Networks, Yuan-Tse Yu, Chung-Ming Huang, and Hsing-Cheng Wang (National Cheng Kung University and National Kaohsiung Normal University, Taiwan)

A Distributed Telematics Peer-to-Peer (D-TP2P) Networking System for Service Discovery, Chung-Ming Huang, Chia-Ching Yang, and Chun-Yu Tseng (National Cheng Kung University, Taiwan)

Empirical Predictor of TCP Throughput on a Multihop Wireless Path, Anna Chaltseva and Evgeny Osipov (Lulea University of Technology, Sweden)

A Framework for Connectivity in Inter-working Multi-hop Wireless Networks, Oladayo Salami, Antoine Bagula, and H. Anthony Chan (University of Cape Town, South Africa)

WEDNESDAY, August 25, 2010

Pulkovskaya Park Inn, Room X

9:00 - 10:00 Invited talk NEW2AN

Demodulating and Encoding Heritage (DEH): Multi-Disciplinary Cross-Domain Research, Development and Deployment over Computer Science/Engineering and Human Literature Science for U-Heritage, Chung-Ming Huang (National Cheng Kung University, Taiwan)

10:00 – 10:30 Coffee break NEW2AN

10:30 – 12:30 Session 4: Integrated wireless networks

Practical Vertical Handover Mechanisms between Satellite and Terrestrial Networks, MinSu Shin, ManKyu Park, DeockGil Oh, ByungChul Kim, and JaeYong Lee (ETRI and Chungnam National University, Korea)

Geo-aware Handover of Mission Agents Using Opportunistic Communication in VANET, Edison Pignaton de Freitas, Tales Heimfarth, Flavio Rech Wagner, Armando Morado Ferreira, Carlos Eduardo Pereira, and Tony Larsson (Halmstad University, Sweden, and Federal University of Rio Grande do Sul and Military Institute of Engineering, Brazil)

Comparison and Evaluation of the Most Efficient Mobility Management Protocols for Integrated Wireless Networks, Asimakis Lykourgiotis and Stavros Kotsopoulos (University of Patras and Wireless Telecommunications Laboratory, Greece)

Functional Model and Service Scenarios for QoS Enabled Mobile VoIP Service, Kyu Ouk Lee, Sang Soo Lee, and Tae Whan Yoo (ETRI, Korea)

Heuristic Approaches to the Multi-objective Network Design and Optimization for Wireless Data Networks, Chutima Prommak and Naruemon Wattanapongsakorn (Suranaree University of Technology and King Mongkut's University of Technology, Thailand)

12:30 – 13:30 Lunch NEW2AN

13:30 – 14:45 Session 5: Resource Management

Call Admission Control in Single and Two-Tier Cellular Networks, Manfred Schneps-Schneppe and Janis Sedols (Ventspils University College and University of Latvia, Latvia)

Joint Admission Control and Resource Allocation for Multiuser Loading in LTE Networks, V. Venkatkumar, T. Haustein, and M. Faulkner (Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut, Germany and Victoria University, Australia)

Data Traffic Scheduling Algorithm for Multiuser MIMO-OFDM System with the Throughput Maximization, Jerzy Martyna (Jagiellonian University, Poland)

14:45 – 15:15 Coffee break NEW2AN

15:15 – 16:30 Multimedia Communications

Scalable Video Coding Based on Three-Dimensional Discrete Pseudo Cosine Transform, Eugeny Belyaev, Timofey Sukhov, and Liu Kai (SPIIRAS and Baltic State Technical University "Voenmeh", Russia, Xidian University, China)

NTRULO: A Tunneling Architecture for Multimedia Conferencing over IP, A. Amirante, T. Castaldi, L. Miniero, and S.P. Romano (University of Napoli Federico II, Italy)

Seamless Streaming Service Session Migration Support Architecture for Heterogeneous Devices, Geun-Hyung Kim and Bong-Hwan Lee (Dong Eui University and Daejeon University, Korea)

16:30 Conference closing remarks