

3rd International Workshop on Multiple Access Communications



13-14 September 2010, Barcelona, Spain

Preliminary Program

Monday, 13th

9:00 – 9:30	MACOM 2010 Opening session: Welcome!
9:30 – 10:30	Keynote: Latest Advances in developing CDMA models Dr. Dmitry Osipov (IITP RAS, RU)
10:30 – 11:00	Coffee Break
11:00 – 12:00	Session 1: Medium Access Control Physical Model Based Interference Classification and Analysis Artem Krasilov (IITP RAS, RU) Dynamic Parameter Adjustment in CSMA/ECA Jaume Barcelo (Universidad Carlos III de Madrid, ES); Boris Bellalta (Universitat Pompeu Fabra, ES); Cristina Cano (Universitat Pompeu Fabra, ES); Anna Sfairopoulou (Universitat Pompeu Fabra, ES); Miquel Oliver (Universitat Pompeu Fabra, ES) A Test-Based Scheduling Protocol (TBSP) for Periodic Data Gathering in Wireless Sensor Networks Mario O Diaz (Imperial College London, UK); Kin Leung (Imperial College, UK)
12:00 – 13:00	Session 2: Multiuser Detection & Advanced Coding Techniques Adaptive Minimum Conditional Bit-Error-Rate Linear Multiuser Detection for STBC-MC-CDMA Systems Transmitting over Mobile Radio Channels Leandro D'Orazio (Siemens S.p.A., IT); Claudio Sacchi (University of Trento, IT); Jerome Louveaux (Universite Catholique de Louvain, BE); Luc Vandendorpe (University of Louvain, BE) On the Performance of Single LDGM Codes for Iterative Data Fusion over the Multiple Access Channel Javier Del Ser (TECNALIA-Telecom, ES); Javier Garcia-Frias (University of Delaware, US); Pedro M. Crespo (CEIT and TECNUN (University of Navarra), ES); Diana Manjarres (TECNALIA-TELECOM, 48170 Zamudio, Spain, ES); Ignacio (Iñaki) Olabarrieta (TECNALIA-Telecom, ES) Preliminary results on the adoption of De Bruijn binary sequences in DS-CDMA systems Stefano Andrenacci (Università Politecnica delle Marche, IT); Ennio Gambi (Università Politecnica delle Marche, IT); Susanna Spinsante (Università Politecnica delle Marche, IT)
13:00 – 14:30	Lunch

14:30 – 15:30	<p>Keynote: Algorithmic Analysis of Retrial Queues with Correlated Arrival Process Prof. Alexander N. Dudin (Belarus State University, BY)</p>
15:30 – 16:30	<p>Session 3: Queueing Systems</p> <p>An efficient method for proportional differentiated admission control implementation Vladimir V. Shakhov (Institute of Computational Mathematics and Mathematical Geophysics SB RAS, RU)</p> <p>A Geo(m)/G/1/n Queueing System with LIFO Discipline, Service Interruptions and Repeat Again Service, and Restrictions on the Total Volume of Demands Alexander V. Pechinkin (Institute of Informatics Problems, RAS, RU); Sergey Shorgin (Institute of Informatics Problems, RU)</p> <p>Retrial Queueing Model MMAP/M₂/1 with Two Orbits Konstantin Avrachenkov (INRIA Sophia Antipolis, FR); Alexander N Dudin (Belarusian State University, BY); Valentina I Klimenok (Belarusian State University, BY)</p>
16:30 – 17:00	<p>Poster Session + Coffee break</p> <p>Queueing System with Alternating Service Rates for Free Space Optics-Radio Hybrid Channel Vladimir Vishnevskiy and Olga Semenova (ZAO Research and Development Company "INSET", RU).</p> <p>Using Agent-Oriented Simulation System AGNES for Evaluation of Sensor Networks Dmitry Podkorytov (Institute of Computational Mathematics and Mathematical Geophysics, RU); Alexey Rodionov (Institute of Computational Mathematics and Mathematical Geophysics, RU); Olga Sokolova (Institute of Computational Mathematics and Mathematical Geophysics, RU); Anastasia Yurgenson (Institute of Computational, Mathematics and Mathematical Geophysics SB RAS, RU)</p> <p>Analysis of different channel sharing strategies in cognitive radio networks Elena Bernal-Mor (Universidad Politécnic de Valencia, ES), Vicent Pla (Universidad Politécnic de Valencia, ES), and Jorge Martinez-Bauset (Universidad Politécnic de Valencia, ES)</p> <p>A queueing Model for SDMA Downlink Transmissions Ruizhi Liao (NeTS/UPF, ES), Boris Bellalta (NeTS/UPF, ES), Miquel Oliver, (NeTS/UPF, ES), Núria Garcia (NeTS/UPF, ES)</p> <p>Cross-Layer Channel-Aware Approaches for Modern Wireless Networks Sergey Andreev (Tampere University of Technology, FI), Olga Galinina (Speech Technology Center, RU) and Alexey Vinel (SPIIRAS, RU)</p> <p>Laws of conservation in the queueing theory Yuri Ryzhikov (SPIIRAS, RU)</p>
17:00 – 19:00	<p>Keynote: The history of the ALOHAnet Dr. Norman Abramson (University of Hawaii, USA)</p> <p>Round-table: Random access MAC protocols</p>
19:00 – 20:30	Social Event
20:30 – ...	Social Dinner

Tuesday, 14th

9:00 – 10:00	<p>Session 4: Wireless Mesh Networks and WIMAX</p> <p>Intra-flow interference study in IEEE 802.11s mesh networks Ivan Pustogarov (Institute for Information Transmission Problems, Russian Academy of Science, RU); Andrey Lyakhov (Russian Academy of Science, RU)</p> <p>Simulation Study of VoIP Performance in IEEE 802.11 Wireless Mesh Networks Kirill Andreev (IITP, RU); Pavel Boyko (Institute for Information Transmission Problems, RU)</p> <p>Modeling the influence of the Real-Time Traffic on the Delay of the Non Real-Time Traffic in IEEE 802.16 Network Zsolt Saffer (Budapest University of Technology and Economics, HU); Sergey Andreev (Tampere University of Technology, FI); Yevgeni Koucheryavy (Tampere University of Technology, FI)</p>
10:00 – 11:00	<p>Session 5: OFDM 1</p> <p>On the probabilistic description of an asynchronous DHA FH OFDMA system with threshold noncoherent reception. Dmitry Osipov (IITP RAS, RU)</p> <p>Adaptive Channel Estimation for STBC-OFDM Systems based on Nature-Inspired Optimization Strategies Leandro D'Orazio (Siemens S.p.A., IT); Claudio Sacchi (University of Trento, IT); Massimo Donelli (University of Trento, IT).</p> <p>Fractional Frequency Reuse Scheme in Cooperative Relaying For Multi-cell OFDMA Systems Abdelhalim Najjar (ISIG, Kairouan University, TN); Nouredine Hamdi (INSAT, Carthage University, TN); Ammar Bouallegue (National School of Engineers of Tunis, TN)</p>
11:00 – 11:30	Coffee break
11:30 – 13:30	<p>WINEMO Special Session</p> <p>Selected presentations from IC 0906 COST Action: Wireless Networking for Moving Objects (WINEMO)</p>
13:30 – 14:30	Lunch
14:30 – 15:30	<p>Keynote: The validity of IEEE 802.11 MAC modeling hypotheses Dr. David Malone (Hamilton Institute, IE)</p>
15:30 – 16:30	<p>Session 6: OFDM 2</p> <p>Static Inter-Cell Interference Coordination Techniques for LTE Networks: A Fair Performance Assessment David Gonzalez (Universitat Politècnica de Catalunya, ES); Mario Garcia-Lozano (Universitat Politècnica de Catalunya, ES); Silvia Ruiz Boqué (UPC, ES); Joan Olmos (Universitat Politècnica de Catalunya, ES)</p> <p>A Two-Users Transmission Game in OFDM Wireless Networks with Resource Cost Andrey GarnaeV (St.-Petersburg State University, RU); Anton Toritsyn (Saint Petersburg State University, RU)</p> <p>QoS-driven Radio Resource Allocation for OFDMA Networks based on a Game Theoretical</p>

	<p>Approach Claudio Sacchi (University of Trento, IT); Fabrizio Granelli (University of Trento, IT)</p>
16:30 – 17:00	<p>Coffee Break</p>
17:00 – 18:00	<p>Session 7: MANETs</p> <p>Multiple Metrics in MANET with End-to-End QoS Support for Unicast and Multicast Traffic Evgeny Khorov (Institute for Information Transmission Problems, Russian Academy of Science, RU); Alexander A Safonov (Institute for Information Transmission Problems, Russian Academy of Science, RU)</p> <p>Performance of MAC protocols in beaconing Mobile Ad-hoc Multibroadcast Networks Cristina Rico García (German Aerospace Center (DLR), DE), Andreas Lehener (German Aerospace Center (DLR), DE), Patrick Robertson (German Aerospace Center (DLR), DE), Thomas Strang (German Aerospace Center (DLR), DE)</p> <p>Quality of Service Oriented Analysis of Cross-Layer Design in Wireless Ad Hoc Networks Ulrike Korger (Technische Universität München, DE); Christian Hartmann (Technische Universität München, DE); Katsutoshi Kusume (DOCOMO Euro-Labs, DE); Joerg C. Widmer (DOCOMO Euro-Labs, DE)</p>
18:00 – 18:30	<p>MACOM 2010 closing session</p>