### DIAL-M-POMC 2007 Workshop Program

#### Thursday, August 16, 2007

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:45 am to 8:30 am</td>
<td>Breakfast &amp; Registration</td>
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<td>8:30 am to 8:40 am</td>
<td>Opening Remarks: Torsten Braun and Arun Sen, Program Co-Chairs</td>
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| 8:40 am to 9:40 am | Keynote Address: *Distributed Computing, Mobile Networks, and Algorithms*  
Baruch Awerbuch (Johns Hopkins University) |
| 9:40 am to 10:40 am | **Session 1: Sensor Networks**, Chair: Torsten Braun                  |
|                  |  ❖ *Backbone-based Scheduling for Data Dissemination in Wireless Sensor Networks with Mobile Sinks*  
Yu Chen and Eric Fleury (ARES/INRIA, INSA de Lyon, France)  
❖ *Extending Wireless Sensor Networks Lifetime using Disjoint Connected Dominating Sets*  
Trac Nguyen and Dung Huynh (University of Texas at Dallas, USA)  
❖ *Multiple Sink Positioning in Sensor Networks*  
Shahab Mihandoust and Lata Narayanan (Concordia University, Canada) |
| 10:40 am to 11:00 am | Break                                                                  |
| 11:00 am to 11:40 am | **Invited Talk I**: Madhav Marathe (Virginia Tech), Session Chair: Arun Sen  
*Provable Algorithms for Joint Optimization of Transport, Routing and MAC layers in Wireless Ad Hoc Networks* |
| 11:40 am to 12:20 pm | **Invited Talk II**: Ravi Jain (Google) Session Chair: Arun Sen         |
| 12:20 pm to 1:20 pm | Lunch Break                                                            |
| 1:20 pm to 2:00 pm | **Invited Talk III**: Tim Roughgarden (Stanford University), Session Chair: Jennifer Welch  
*Measures of Inefficiency and Optimal Protocol Design* |
| 2:00 pm to 2:40 pm | **Invited Talk IV**: Kamal Jain (Microsoft Research), Session Chair: Jennifer Welch  
*Cell Breathing in Wireless LANs: Algorithms for load balancing* |
| 2:40 pm to 3:40 pm | **Session 2: Wireless Networks I**, Session Chair: Jennifer Welch      |
|                  |  ❖ *Reliable Local Broadcast in a Wireless Network Prone to Byzantine Failures*  
Vartika Bhandari and Nitat Vaidya (University of Illinois at Urbana-Champaign, USA)  
❖ *A Class of Orientation-Invariant Yao-type Subgraphs of a Unit Disk Graph*  
Thomas Fevans, Alaa Eddien Abdallah, Tarek El Salti and Louisa Harutyunyan (Concordia University, Canada)  
❖ *Low Energy Construction of Fault Tolerant Topologies in Wireless Networks*  
Hanan Shpungin and Michael Segal (Ben-Gurion University of the Negev, Israel) |
| 3:40 pm to 4:00 pm | Break                                                                  |
| 4:00 pm to 5:40 pm | **Session 3: Wireless Networks II**, Session Chair: TBA                |
|                  |  ❖ *Dessy: Towards Flexible Mobile Desktop Search*  
Eemil Lagerspetz and Tancred Lindholm, Sasu Tarkoma (Helsinki Institute for Information Technology, Finland)  
❖ *Near-Optimal Compression of Probabilistic Counting Sketches for Networking Applications*  
Björn Scheuermann and Martin Mauve (Heinrich Heine University, Düsseldorf, Germany)  
❖ *SDP-based Approach for Channel Assignment in Multi-radio Wireless Networks*  
Hieu Dinh, Yoo-Ah Kim (University of Connecticut, USA), Seungjoon Lee (AT&T Research Labs, USA), Minho Shin (University of Maryland at College Park, USA) and Bing Wang (University of Connecticut, USA)  
❖ *On the Connectivity Threshold for General Uniform Matric Space*  
Gady Kozma (Weizmann Institute of Science, Israel), Zvi Lotker (Ben-Gurion University, Beer Sheva, Israel) and Gideon Strupp (Sheer Networks, Israel)  
❖ *Strictly-Localized Construction of Near-Optimal Power Spanners for Wireless Ad-Hoc Networks*  
Iyad Kanj, Ljubomir Perković (DePaul University, USA) and Ge Xia (Lafayette College, USA) |