# Technical Program

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<td>8:20 – 8:30</td>
<td>Welcome</td>
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<td>8:30 – 9:15</td>
<td>Keynote Speech</td>
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<td></td>
<td>Multi-Channel Wireless Networks: Capacity, Protocols and Experimentation</td>
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<td></td>
<td>Nitin H. Vaidya, University of Illinois at Urbana-Champaign, USA</td>
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<td>9:15 – 10:45</td>
<td>Session I: Ad hoc and Mesh Networks</td>
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<td>Session Chair: Jörg Ott, Helsinki University of Technology, Finland</td>
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<td>A Real-World Framework to Evaluate Cross-Layer Protocols for Wireless Multihop Networks</td>
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<td>Yves Igor Jerschow, Björn Scheuermann, Christian Lochert, Martin Mauve</td>
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<td>Methods for Restoring MAC Layer Fairness in IEEE 802.11 Networks with Physical Layer Capture</td>
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<td>Sachin Ganu, Kishore Ramachandran, Marco Gruteser, Ivan Seskar</td>
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<td>The Real Gain of Cross-Layer Routing in Wireless Mesh Networks</td>
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<td>Luigi Iannone, Konstantin Kabassanov, Serge Fdida</td>
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<td>Design and Implementation of a Multi-Channel Multi-Interface Network</td>
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<td>Chandrakanth Chereddi, Pradeep Kyasanur, Nitin H. Vaidya</td>
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<td>10:45 – 11:15</td>
<td>Coffee Break</td>
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<td>11:15 – 12:45</td>
<td>Session II: Mobility</td>
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<td>Session Chair: James Scott, Intel Research Cambridge, UK</td>
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<td>A Community Based Mobility Model for Ad Hoc Network Research</td>
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<td>Mirco Musolesi, Cecilia Mascolo</td>
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<td>Analyzing the Impact of Mobility in Ad Hoc Networks</td>
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<td>V. Lenders, J. Wagner, M. May</td>
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<td>OPT - Online Person Tracking System for Context-awareness in Wireless Personal Network</td>
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<td>Xueli An, Jing Wang, R. Venkatesha Prasad, I.G.M.M. Niemegeers</td>
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<td>On Profiling Mobility and Predicting Locations of Wireless Users</td>
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<td>Joy Ghosh, Matthew Beal, Hung Ngo, Chunming Qiao</td>
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<td>12:45 – 14:00</td>
<td>Lunch Break</td>
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14:00 – 15:30 Posters and Demos Session

High-Performance Multi-Radio WSN Platform
Mikko Kohvakka, Tero Arpinen, Marko Hännikäinen, Timo D. Hämäläinen

AHR: A Two-State Adaptive Mechanism for Link Connectivity Maintenance in AODV
Carles Gomez, Alex Cuevas, Josep Paradells

Lessons gained from test beds of ad hoc networks and perspectives
Yvon Gourhant, F. Jan, L. Reynaud, R. Narayanan

Yves Igor Jerschow, Björn Scheuermann, Christian Lochert, Martin Mauve

Backup and Bypass: Introducing DTN-based Ad-hoc Networking to Mobile Phones
Omar Mukhtar, Jörg Ott

The Real Gain of Cross-Layer Routing in Wireless Mesh Networks
Luigi Iannone, Konstantin Kabassanov, Serge Fdida

On-demand Software Management in Sensor Networks using Profiling Techniques
Zheng Yao, Zhengyu Lu, Holger Marquardt, Gerhard Fuchs, Sébastien Truchat, Falko Dressler

Fast and Flexible Tool for the Generation, Maintenance and Evaluation of Hierarchical Structures in Diverse Networks
Kyriakos Manousakis, Anthony J. McAuley

OPT - Online Person Tracking System for Context-awareness in Wireless Personal Network
Xueli An, Jing Wang, R. Venkatesha Prasad, I.G.M.M. Niemegeers

Perspeckz-64: Physical Test-bed for Performance Evaluation of MAC and Networking Algorithms for Specknets
K.J. Wong, D.K. Arvind

A Reliable Sensor Data Collection Network Using Unmanned Aircraft
Daniel Henkel, Cory Dixon, Jack Elston, Timothy X Brown

Demonstrating Optimized Seamless Handover of Multi-Hop Networks
S. Giordano, M. Kulig, D. Lenzarini, H. Nguyen, A. Puiatti, S. Vanini

Guillaume Chelius, Antoine Fraboulet, Eric Fleury

15:15 – 15:45 Coffee Break

15:45 – 17:15 Session III: Sensor Networks

Session Chair: Silvia Giordano, SUPSI, CH

TWIST: A Scalable and Reconfigurable Testbed for Wireless Indoor Experiments with Sensor Networks
Vlado Handziski, Andreas Köpke, Andreas Willig, Adam Wolisz

SpeckMAC: Low-power Decentralised MAC Protocols for Low Data Rate Transmissions in Specknets
K.J. Wong, D.K. Arvind

Supervised Learning in Sensor Networks: New Approaches with Routing, Reliability Optimizations
Yong Wang, Margaret Martonosi, Li-Shiuan Peh

Ad-Hoc Multicast Routing on Resource-Limited Sensor Nodes
Bor-rong Chen, KK Muniswamy-Reddy, Matt Welsh

17:15 – 18:15 Panel: How REAL must be the ad hoc network research?

Organiser: Marco Conti, IIT-CNR, Italy
Panelists: Jon Crowcroft, University of Cambridge, UK
David B. Johnson, Rice University, USA
Margaret Martonosi, Princeton University, USA
Chunming Qiao, The State University of New York at Buffalo, USA
Adam Wolisz, Technical University of Berlin, Germany