## Technical Program of LCN 2011 and Adjunct Workshops

<table>
<thead>
<tr>
<th>Time</th>
<th>Rhein</th>
<th>Paris-Rom</th>
<th>Berlin</th>
<th>Rhein-Three</th>
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</thead>
<tbody>
<tr>
<td><strong>Monday, October 3</strong></td>
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<tr>
<td>17:00</td>
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<td></td>
<td><strong>Welcome Reception</strong></td>
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<tr>
<td><strong>Tuesday, October 4</strong></td>
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<td>08:00</td>
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<td><strong>Registration</strong></td>
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<td>08:30</td>
<td>SenseApp:</td>
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<tr>
<td>08:55</td>
<td>Opening</td>
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<td>WNM: Opening</td>
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<td>09:00</td>
<td>SenseApp:</td>
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<td>WNM: Technical Papers - I</td>
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<tr>
<td>09:00</td>
<td>Keynote: Gian Pietro Picco, University of Trento</td>
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<td>10:00</td>
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<td><strong>Coffee break</strong></td>
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<td>10:30</td>
<td>SenseApp:</td>
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<tr>
<td>10:30</td>
<td>Experimentation, Analysis and Hardware</td>
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<td>WNM: Technical Papers - II</td>
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<td>WNM: Keynote 1: Benoit Claise, Cisco Systems</td>
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<td>11:00</td>
<td>Keynote:</td>
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<tr>
<td>11:45</td>
<td>Antonio Pescapè, University of Napoli Federico II</td>
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<td>12:30</td>
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<td><strong>Lunch Break</strong></td>
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<td>SenseApp:</td>
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<td>WASA-NGI-IV: Opening</td>
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<tr>
<td>13:50</td>
<td>Algorithms and Protocols</td>
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<td>WISE: Opening</td>
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<td>13:55</td>
<td>WASA-NGI-IV: Keynote 1: Oliver Waldhorst, Ilmenau University of Technology</td>
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<td>WISE: Full Papers 1</td>
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<tr>
<td>14:30</td>
<td>WASA-NGI-IV: Peer-to-Peer and Overlay Services</td>
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<td>WISE: Discussion and Short Paper 1</td>
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<td>14:40</td>
<td>WASA-NGI-IV: Demo Session Setup</td>
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<tr>
<td>15:30</td>
<td>SenseApp: Applications</td>
<td>WASA-NGI-IV: Demo Session</td>
<td>WISE: Full Papers 2</td>
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<tr>
<td>16:15</td>
<td>WASA-NGI-IV: Keynote 2: Thomas Plagemann, University of Oslo</td>
<td>WASA-NGI-IV: Keynote 2: Thomas Plagemann, University of Oslo</td>
<td>WISE: Discussion and Short Paper 2</td>
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<tr>
<td>16:50</td>
<td>SenseApp: Wrap-up and Conclusion</td>
<td>WASA-NGI-IV: New Paradigms &amp; Energy Awareness</td>
<td>WISE: Full Papers 3</td>
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<tr>
<td>18:00</td>
<td>Tuesday Workshops - End of Technical Program</td>
<td>Tuesday Workshops - End of Technical Program</td>
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**Wednesday, October 5**

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<tbody>
<tr>
<td>08:00</td>
<td>Registration</td>
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<tr>
<td>08:30</td>
<td>Opening and Welcome</td>
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<tr>
<td>09:00</td>
<td>Keynote 1: Peter Martini, University of Bonn &amp; Fraunhofer FKIE</td>
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<td>10:00</td>
<td>Coffee break</td>
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<tr>
<td>10:30</td>
<td>Best Paper Candidates</td>
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<td>12:00</td>
<td>Lunch break</td>
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<tr>
<td>13:20</td>
<td>Quality of Service</td>
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<tr>
<td>15:00</td>
<td>Poster Presentations with Tea</td>
</tr>
<tr>
<td>16:45</td>
<td>LCN Wednesday - End of Technical Program</td>
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<tr>
<td>17:15</td>
<td>Social Event - Busses leave for transfer</td>
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<tr>
<td>18:00</td>
<td>Social Event</td>
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**Thursday, October 6**

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<td>08:55</td>
<td>Opening</td>
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<tr>
<td>09:00</td>
<td>Keynote 2: Guoliang (Larry) Xue, Arizona State University</td>
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<tr>
<td>10:30</td>
<td>Peer2Peer Networks</td>
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<td>12:35</td>
<td>Lunch Break</td>
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<td>Time</td>
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<tr>
<td>13:45</td>
<td>Security, Privacy and Anonymity</td>
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<td>WSN - Applications and Services</td>
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<td>Resource Allocation and Scheduling</td>
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<td>15:25</td>
<td>Tea break</td>
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<tr>
<td>15:55</td>
<td>Mobile and Wireless Networks</td>
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<td>WSN - Self-Organization and Coverage</td>
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<td>Performance Evaluation</td>
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<td>LCN Thursday - End of Technical Program</td>
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**Friday, October 7**

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<tr>
<td>08:00</td>
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<tr>
<td>08:30</td>
<td>WLN: Opening</td>
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<td></td>
<td>ON-MOVE: Opening</td>
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<tr>
<td></td>
<td>P2MNET: Opening</td>
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<tr>
<td>09:00</td>
<td>WLN Keynote: Madjid Merabti, Liverpool John Moores University</td>
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<tr>
<td></td>
<td>ON-MOVE: Keynote: Marc Emmelmann, Fraunhofer FOKUS</td>
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<tr>
<td></td>
<td>P2MNET: Wireless Networks</td>
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<tr>
<td>10:00</td>
<td>Coffee break</td>
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<tr>
<td>10:30</td>
<td>WLN: WLAN and Ad Hoc Networks</td>
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<tr>
<td></td>
<td>ON-MOVE: Mobility</td>
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<tr>
<td></td>
<td>P2MNET: Wireless Mesh and Sensor Networks</td>
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<tr>
<td>11:30</td>
<td>ON-MOVE: Posters and Demos</td>
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<tr>
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<td>P2MNET: Wireless Mesh and Sensor Networks</td>
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<tr>
<td>12:30</td>
<td>Lunch Break</td>
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<tr>
<td>13:30</td>
<td>WLN: Wireless Sensor Networks</td>
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<td>ON-MOVE: Vehicular Networks I</td>
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<td>P2MNET: Ubiquitous Networks and Mobile Networks</td>
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<td>Coffee break</td>
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<tr>
<td>15:30</td>
<td>WLN: Wireless Mesh and Vehicular Networks</td>
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<td>ON-MOVE: Vehicular Networks II</td>
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<td>P2MNET: Ubiquitous and Multimedia Networks</td>
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<td>16:30</td>
<td>ON-MOVE: Discussion and Closing Remarks</td>
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<td>P2MNET: Multimedia Networks</td>
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<td>18:00</td>
<td>Friday Workshops - End of Technical Program</td>
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**Monday, October 3**

**17:00 - 19:00**

**Welcome Reception**

Chair: Matthias Frank (University of Bonn, Germany)
08:30 - 09:00

**SenseApp: Opening**

Sixth IEEE International Workshop on Practical Issues in Building Sensor Network Applications  
**Room:** Rhein  
Chairs: Matthias Hollick (Technische Universität Darmstadt & Secure Mobile Networking Lab, Center for Advanced Security Research Darmstadt, Germany), Salil Kanhere (University of New South Wales, Australia)

08:55 - 09:00

**WNM: Opening**

6th IEEE Workshop on Network Measurements  
**Room:** Berlin  
Chair: Ralf Wolter (Cisco Systems, Germany)

09:00 - 10:00

**SenseApp: Keynote: Gian Pietro Picco, University of Trento**

Wireless Sensor Network Deployments: From Research to the Real-World–and Back  
**Room:** Rhein  
Chairs: Matthias Hollick (Technische Universität Darmstadt & Secure Mobile Networking Lab, Center for Advanced Security Research Darmstadt, Germany), Salil Kanhere (University of New South Wales, Australia)

09:00 - 10:10

**WNM: Technical Papers - I**

**Room:** Berlin  
Chair: Ralf Wolter (Cisco Systems, Germany)

- **A Study on Path Behavior Characteristics of IPv6 Based Reflector Attacks**
  Siva Meena (IITM, India); Serugudi Venkataraman Raghavan (IIT Madras, India); Surinder Mohan Bhaskar (Society for Electronic Transactions and Security, India)
  pp. 927-933

- **Improving the Network Performance and Management of Operability Regions**
  Seyed Shahrestani (University of Western Sydney, Australia)
  pp. 934-938
Z-Monitor: Monitoring and Analyzing IEEE 802.15.4-based Wireless Sensor Networks
Anis Koubâa (Al-Imam Mohamed bin Saud University Riyadh / Cister Research Group Porto, Saudi Arabia); Shafique Ahmad Chaudhry (Al-Imam Muhammad Bin Saud University, Saudi Arabia); Olfa Gaddour (National School of ENgieeers of Sfax, Tunisia); Rihab Chaari (ENIS, Tunisia); Nada Al-Elawi (IMAMU, Saudi Arabia); Hanan Al-Soli (IMAMU, Saudi Arabia); Hichem Boujilben (ENIS, Tunisia)
pp. 939-947

10:00 - 10:30
Coffee break

10:30 - 12:30
SenseApp: Experimentation, Analysis and Hardware
Room: Rhein
Chair: Athanassios Boulis (National ICT Australia, Australia)

Comparative Performance Analysis of the PermaDozer Protocol in Diverse Deployments
Matthias Keller (ETH Zurich, Switzerland); Matthias Woehrle (Delft University of Technology, The Netherlands); Roman Lim (ETH Zurich, Switzerland); Jan Beutel (ETH Zurich & Computer Engineering and Networks Lab, Switzerland); Lothar Thiele (ETH Zurich, Switzerland)
pp. 957-965

Wireless Sensor Network Platforms - Datasheets versus Measurements
Peter Trenkamp (University Bremen, Germany); Markus Becker (University of Bremen, Germany); Carmelita Goerg (University of Bremen, Germany)
pp. 966-973

Inkeun Cho (University of Maryland, USA); Chung-Ching Shen (University of Maryland, USA); Siddharth Potbhare (CoolCad Electronics, USA); Shuvra Bhattacharyya (University of Maryland, USA); Neil Goldsman (CoolCad Electronics, USA)
pp. 974-981

Measuring the State-of-Charge - Analysis and Impact on Wireless Sensor Networks
Leander B Hörmann (Graz University of Technology, Austria); Philipp M Glatz (Delft University of Technology, The Netherlands); Christian Steger (Graz University of Technology, Austria); Reinhold Weiss (Graz University of Technology, Austria)
pp. 982-985
Implementation of a Data Collection Mechanism in Electronic Triage System Using Wireless Sensor Devices
Anuj Ratna Bajracharya (Osaka University, Japan); Akira Uchiyama (Osaka University, Japan); Akihito Hiromori (Osaka University, Japan); Hirozumi Yamaguchi (Osaka University, Japan); Teruo Higashino (Osaka University, Japan)
pp. 986-989

Optical Wireless Sensor Network Design for a Conducting Chamber
Abhishek Borkar (Dhirubhai Ambani Institute of Information and Communication Technology, India); Prabhat Ranjan (DA-IICT, India)
pp. 990-993

10:30 - 11:00

WNM: Technical Papers - II

Room: Berlin
Chair: Ralf Wolter (Cisco Systems, Germany)

Planet YouTube: Global, Measurement-based Performance Analysis of Viewer’s Experience Watching User Generated Videos
Dilip Kumar Krishnappa (University of Massachusetts Amherst, USA); Samamon Khemmarat (University of Massachusetts, Amherst, USA); Michael Zink (University of Massachusetts Amherst, USA)
pp. 948-956

11:00 - 11:45

WNM: Keynote 1: Benoit Claise, Cisco Systems

Network Measurements Random Thoughts
Room: Berlin
Chair: Ralf Wolter (Cisco Systems, Germany)

11:45 - 12:30

WNM: Keynote 2: Antonio Pescapè, University of Napoli Federico II

Networking Monitoring and Measurements: Challenges and Future Directions
Room: Berlin
Chair: Ralf Wolter (Cisco Systems, Germany)
12:30 - 13:30

Lunch Break

13:30 - 15:00

SenseApp: Algorithms and Protocols

Room: Rhein
Chair: Andreas Reinhardt (Technische Universität Darmstadt, Germany)

Resilient Data Aggregation for Unattended WSNs
Jens-Matthis Bohli (NEC Laboratories Europe, Germany); Panagiotis (Panos) Papadimitratos (KTH, Sweden); Donato Verardi (EPFL, Switzerland); Dirk Westhoff (HAW Hamburg, Germany)
pp. 994-1002

Design and Evaluation of an Adaptive Sampling Strategy for a Wireless Air Pollution Sensor Network
Manik Gupta (Queen Mary, University of London, United Kingdom); Lamling Venus Shum (University College London, United Kingdom); Eliane Bodanese (Queen Mary, University of London, United Kingdom); Stephen Hailes (University College London, United Kingdom)
pp. 1003-1010

Optimized Data-Available Storage for Energy-Limited Wireless Sensor Networks
Jens Kamenik (OFFIS, Germany); Oliver Theel (Carl von Ossietzky University Oldenburg, Germany)
pp. 1011-1019

A-Stack: A Real-Time Protocol Stack for IEEE 802.15.4 Radios
Emre I. Cosar (Aalto University, School of Electrical Engineering, Finland); Aamir Mahmood (Aalto University & School of Electrical Engineering, Finland); Mikael Björkbom (Aalto University, School of Electrical Engineering, Finland)
pp. 1020-1023

13:45 - 13:50

WISe: Opening

Fourth IEEE LCN Workshop on Wireless and Internet Services
Room: Berlin
Chair: Martin Tunnicliffe (Kingston University, United Kingdom)
13:45 - 13:55

WASA-NGI-IV: Opening

Fourth International Workshop on Architectures, Services and Applications for the Next Generation Internet
Room: Paris-Rom
Chair: Oliver P. Waldhorst (Ilmenau University of Technology & Karlsruhe Institute of Technology (KIT), Germany)

13:50 - 14:40

WISe: Full Papers 1

Room: Berlin
Chair: Martin Tunnicliffe (Kingston University, United Kingdom)

<table>
<thead>
<tr>
<th>An Empirical Study on the Interactions Between ALTO-assisted P2P Overlays and ISP Networks</th>
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<tbody>
<tr>
<td>Chaojiong Wang (University of Surrey, United Kingdom); Ning Wang (University of Surrey, United Kingdom); Michael P. Howarth (University of Surrey, United Kingdom); George Pavlou (University College London, United Kingdom)</td>
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<td>pp. 719-726</td>
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<tr>
<th>Wireless Technology Agnostic Real-time Localization in Urban Areas</th>
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<tbody>
<tr>
<td>Mohamed Amine Abid (Universite Sherbrooke, Canada); Soumaya Cherkaoui (Université de Sherbrooke, Canada)</td>
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<td>pp. 727-733</td>
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13:55 - 14:30

WASA-NGI-IV: Keynote 1: Oliver Waldhorst, Ilmenau University of Technology

The Spontaneous Virtual Network Architecture as a Way to the Future Internet
Room: Paris-Rom
Chair: Boris Koldehofe (Universitat Stuttgart, Germany)

14:30 - 14:55

WASA-NGI-IV: Peer-to-Peer and Overlay Services

Room: Paris-Rom
Chair: Boris Koldehofe (Universitat Stuttgart, Germany)
DuDE: A Distributed Computing System using a Decentralized P2P Environment
Jan Skodzik (University of Rostock, Germany); Peter Danielis (University of Rostock, Germany); Vlado Altmann (University of Rostock, Germany); Jens Rohrbeck (University of Rostock, Germany); Dirk Timmermann (University of Rostock, Germany); Thomas Bahls (Nokia Siemens Networks, Germany); Daniel Duchow (Nokia Siemens Networks, Germany)
pp. 1048-1055

14:40 - 15:00

WISe: Discussion and Short Paper 1

Room: Berlin
Chair: Martin Tunnicliffe (Kingston University, United Kingdom)

Providing Mobile Internet Service Using MONetary Wireless Networking (MOWNET)
Abbas Nayebi (Institute for Research in Fundamental Sciences, Iran); Amin Daheesh (Institute for Research in Fundamental Science (IPM), Iran); Hamid Sarbazi-Azad (IPM & Sharif University of Technology, Iran)
pp. 734-737

14:55 - 15:00

WASA-NGI-IV: Demo Session Setup

Room: Paris-Rom

15:00 - 15:30

Coffee break

15:30 - 16:50

SenseApp: Applications

Room: Rhein
Chair: Gian Pietro Picco (University of Trento, Italy)

iHorse - A WSN-based Equine Monitoring System
André Miguel Rodrigues (University of Coimbra, Portugal); Jorge Sá Silva (University of Coimbra, Portugal); Fernando Boavida (University of Coimbra, Portugal); Tiago Andre Camilo (University of Coimbra, Portugal)
pp. 1024-1031
**SmartMeter.KOM: A Low-cost Wireless Sensor for Distributed Power Metering**
Andreas Reinhardt (Technische Universität Darmstadt, Germany); Dominic Burkhardt (TU Darmstadt, Germany); Parag S. Mogre (Siemens AG, Corporate Technology, Corporate Research and Technology, Germany); Manzil Zaheer (Technische Universität Darmstadt, Germany); Ralf Steinmetz (Technische Universität Darmstadt, Germany)
pp. 1032-1039

**A Wireless Sensor Network Test-bed for Structural Health Monitoring of Bridges**
Athanassios Boulis (National ICT Australia, Australia); Rodney Berriman (National ICT Australia Ltd, Australia); Saeed Attar (University of Sydney & NICTA, Australia); Yuri Tselishchev (University of Sydney & NICTA, Australia)
pp. 1040-1043

**Using Sensor Technology to Protect an Endangered Species: A Case Study**
André Sieber (BTU Cottbus, Germany); Reinhardt Karnapke (BTU Cottbus, Germany); Jörg Nolte (BTU Cottbus, Germany); Thomas Martschei (Biomartschei, Germany)
pp. 1044-1047

15:30 - 16:20

**WlSe: Full Papers 2**

Room: Berlin
Chair: Martin Tunnicliffe (Kingston University, United Kingdom)

**Learning Mechanisms for Achieving Context Awareness and Intelligence in Cognitive Radio Networks**
Kok Lim Yau (Victoria University of Wellington, New Zealand); Peter Philip Komisarzczuk (University of West London, United Kingdom); Paul D Teal (Victoria University of Wellington, New Zealand)
pp. 738-745

**Implementation and performance analysis of advanced IT services based on open source JAIN SLEE**
Mauro Femminella (University of Perugia, Italy); Roberto Francescangeli (University of Perugia, Italy); Emanuele Maccherani (University of Perugia, Italy); Luca Monacelli (University of Perugia, Italy)
pp. 746-753

15:30 - 16:15

**WASA-NGI-IV: Demo Session**

Room: Paris-Rom
Chair: Oliver P. Waldhorst (Ilmenau University of Technology & Karlsruhe Institute of Technology (KIT), Germany)
16:15 - 16:50

**WASA-NGI-IV: Keynote 2: Thomas Plagemann, University of Oslo**

Networked sensors, data streams, and complex event processing in the Future Internet - Opportunities and Challenges

**Room:** Paris-Rom

**Chair:** Roland Bless (Karlsruhe Institute of Technology (KIT), Germany)

16:20 - 16:40

**WISe: Discussion and Short Paper 2**

**Room:** Berlin

**Chair:** Martin Tunnicliffe (Kingston University, United Kingdom)

*Enhancing the Security of Mobile Health Monitoring Systems through Trust Negotiations*

Mahmoud Elkhodr (School of Computing and Mathematics, University of Western Sydney, Australia); Seyed Shahrestani (University of Western Sydney, Australia)

pp. 754-757

16:40 - 17:30

**WISe: Full Papers 3**

**Room:** Berlin

**Chair:** Bogdan Ghita (University of Plymouth, United Kingdom)

*Extracting the Independence Signature from Packet Pair Dispersion Data in a Closed-Loop System for End-to-End Bandwidth Probing*

Martin Tunnicliffe (Kingston University, United Kingdom); Mehri Hosseinpour (Kingston University, United Kingdom)

pp. 758-763

*Collecting Router Information for Error Diagnosis and Troubleshooting in Home Networks*

Andreas Müller (Technische Universität München, Germany); Gerhard Münz (Technische Universität München, Germany); Georg Carle (Technische Universität München, Germany)

pp. 764-769
16:50 - 17:05

**SenseApp: Wrap-up and Conclusion**

*Room: Rhein*

Chairs: Matthias Hollick (Technische Universität Darmstadt & Secure Mobile Networking Lab, Center for Advanced Security Research Darmstadt, Germany), Salil Kanhere (University of New South Wales, Australia)

16:50 - 17:40

**WASA-NGI-IV: New Paradigms & Energy Awareness**

*Room: Paris-Rom*

Chair: Roland Bless (Karlsruhe Institute of Technology (KIT), Germany)

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**Subversion Over OpenNetInf and CCNx**

Bengt Ahlgren (SICS, Sweden); Börje Ohlman (Ericsson, Sweden); Erik Axelsson (KTH, Sweden); Lars Brown (KTH, Sweden)

pp. 1056-1063

**Energy-Aware Service Execution**

Waltenegus Dargie (Technische Universität Dresden, Germany); Anja Strunk (Technical University of Dresden, Germany); Alexander Schill (Technische Universität Dresden, Germany)

pp. 1064-1071

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**Wednesday, October 5**

08:30 - 09:00

**Opening and Welcome**

*Room: Rhein*

Chairs: Chun Tung Chou (University of New South Wales, Australia), Tom Pfeifer (Waterford Institute of Technology, TSSG, Ireland), Anura Jayasumana (Colorado State University, USA)

09:00 - 10:00

**Keynote 1: Peter Martini, University of Bonn & Fraunhofer FKIE**

Botnets - Detection, Classification and Countermeasures

*Room: Rhein*

Chair: Tom Pfeifer (Waterford Institute of Technology, TSSG, Ireland)
10:00 - 10:30
Coffee break

10:30 - 12:00
Best Paper Candidates

Room: Rhein
Chair: Chun Tung Chou (University of New South Wales, Australia)

**Enabling Flexible Packet Filtering Through the K-map Priority Elimination Technique**
Nizar Ben Neji (Higher School of Communication of Tunis, Tunisia); Adel Bouhoula (Higher School of Communication of Tunis & University of Carthage, Tunisia); Masato Kimura (Graduate School of Systems and Information Engineering, Japan)
pp. 1-8

**PFS: Probabilistic Filter Scheduling Against Distributed Denial-of-Service Attacks**
Dongwon Seo (Korea University, Korea); Heejo Lee (Korea University, Korea); Adrian Perrig (Carnegie Mellon University, USA)
pp. 9-17

**Using Roadmap Profiling to Enhance the Warning Message Dissemination in Vehicular Environments**
Manuel Fogue (University of Zaragoza, Spain); Piedad Garrido (University of Zaragoza, Spain); Francisco J. Martinez (University of Zaragoza, Spain); Juan-Carlos Cano (Universidad Politecnica de Valencia, Spain); Carlos T. Calafate (Universidad Politécnica de Valencia, Spain); Pietro Manzoni (Universidad Politécnica de Valencia, Spain)
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12:00 - 13:00
Lunch break

13:20 - 15:00
Quality of Service

Room: Rhein
Chair: Burkhard Stiller (University of Zürich & ETH Zürich, TIK, Switzerland)

**User- and Application-Centric Multihomed Flow Management**
Olivier Mehanji (NICTA & UNSW, Mines ParisTech, Inria, Australia); Roksana Boreli (National ICT Australia & University of NSW, Australia); Michael J
Maher (University of NSW, Australia); Thierry Ernst (Mines ParisTech & INRIA, France)
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User-Centric Quality of Service Provisioning
Mark Culverhouse (University of Plymouth, United Kingdom); Bogdan Ghita (University of Plymouth, United Kingdom); Paul Reynolds (Orange, United Kingdom)
pp. 35-41

How to Provision and Manage Off-the-Shelf SIP Phones in Domestic and SOHO Environments
Tiago Cruz (University of Coimbra, Portugal); Paulo Simões (University of Coimbra, Portugal); João Almeida (University of Coimbra, Portugal); João Rodrigues (University of Coimbra, Portugal); Edmundo Monteiro (University of Coimbra, Portugal); Fernando Bastos (PT Inovação, Portugal); Alexandre Laranjeira (PT Inovação, Portugal)
pp. 42-49

Rate Equalization: a New Approach to Fairness in Deterministic Quality of Service
Jorge A. Cobb (The University of Texas at Dallas, USA)
pp. 50-57

Location Dependence, Services and Analysis

Room: Paris-Rom
Chair: J. William Atwood (Concordia University, Canada)

MapCorrect: Automatic Correction and Validation of Road Maps Using Public Sensing
Patrick Baier (University of Stuttgart, Germany); Harald Weinschrott (University of Stuttgart, IPVS, Germany); Frank Dürr (University of Stuttgart, Germany); Kurt Rothermel (University of Stuttgart, Germany)
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Hiding on the Road - Anonymous Usage of Location Based Services
Alan Walsh (Waterford Institute of Technology, Ireland); Tom Pfeifer (Waterford Institute of Technology, TSSG, Ireland)
pp. 67-75

On the Empirical Performance of Self-calibrating WiFi Location Systems
Daniel Turner (University of California at San Diego, USA); Stefan Savage (University of California at San Diego, USA); Alex C. Snoeren (UC San Diego, USA)
pp. 76-84

A Traffic Density Model for Radio Overlapping in Urban Vehicular Ad Hoc Networks
Saeed Bastani (University of Sydney, Australia); Bjorn Landfeldt (University of Sydney, Australia); Lavy Libman (University of Sydney, Australia)
pp. 85-92
IEEE802.X - Performance and Enhancements

Room: Berlin
Chair: Matthias Wählisch (Freie Universität Berlin, Germany)

**High Definition Video in IEEE 802.15.3C mm-Wave Wireless Personal Area Networks**
Sandra Scott-Hayward (Queen's University Belfast, United Kingdom); Emíliano García-Palacios (Queens University Belfast, United Kingdom)
pp. 93-100

**Performance Evaluation of the Inter-Domain Communication in a Switched Ethernet Based In-Car Network**
Hyung-Taek Lim (BMW Group Research and Technology & TU Berlin, Germany); Benjamin Krebs (BMW Group, Germany); Lars Völker (BMW Group, Germany); Peter Zahrer (Technische Universität München, Germany)
pp. 101-108

**Service Differentiation Without Prioritization in IEEE 802.11 WLANs**
Suong H. Nguyen (Swinburne University of Technology, Australia); Lachlan L. H. Andrew (Swinburne University of Technology, Australia); Hai L. Vu (Swinburne University of Technology, Australia)
pp. 109-116

**Analysis of Packet Loss for Batch Traffic Arrivals in IEEE 802.15.4-Based Networks**
Mohammad Sayad Haghighi (K. N. Toosi University of Technology, Iran); Kamal Mohamed-pour (K.N.Toosi University of Technology, Iran); Vijay Varadarajan (Macquarie University, Australia)
pp. 117-122

Setup for Demonstrations

Room: Rhein-Three

15:00 - 16:45

Demonstrations with Coffee

Room: Rhein-Three
Chair: Salil Kanhere (University of New South Wales, Australia)

**The Tube.zero Deployment Support System**
Andreas Reinhardt (Technische Universität Darmstadt, Germany); Parag S. Mogre (Siemens AG, Corporate Technology, Corporate Research and Technology, Germany); Paul Baumann (Technische Universität Darmstadt, Germany); Johannes Schmitt (Technische Universitaet Darmstadt, Germany); Ralf Steinmetz (Technische Universität Darmstadt, Germany)
A Small Data Center Network of ARP-Path Bridges Made of Openflow Switches
Guillermo Ibáñez (Universidad de Alcalá. Escuela Politécnica Superior, Spain); Jad Naous (MIT & Stanford University, USA); Elisa Rojas (Universidad de Alcalá (UAH) Madrid, Spain); Diego Rivera (Universidad de Alcalá, Spain); Bart De Schuymer (Art in Algorithms, Belgium); Thomas Dietz (NEC Europe Ltd., Germany)

Demonstration of MARWIS - a Management Architecture for Heterogeneous Wireless Sensor Network
Gerald Wagenknecht (University of Bern, Switzerland); Markus Anwander (University of Bern, Switzerland); Torsten Ingo Braun (University of Bern, Switzerland)

Future Internet Autonomic Management Using NetServ
Mauro Femminella (University of Perugia, Italy); Roberto Francescangeli (University of Perugia, Italy); Gianluca Reali (University of Perugia, Italy); Jae Woo Lee (Columbia University, USA); Wonsang Song (Columbia University, USA); Henning Schulzrinne (Columbia University, USA)

Hard Real-Time Wireless Medium Access in Action: Stop the Guillotine Within a Millisecond!
Christian Dombrowski (RWTH Aachen University, Germany); James Gross (RWTH Aachen University, Germany)

Transparent Conferencing Without Central Control - Demonstration of the DisCo Approach in P2PSIP
Alexander Knauf (Hamburg University of Applied Science, Germany); Gabriel Hege (HAW Hamburg, Germany); Thomas C. Schmidt (HAW Hamburg (DE), Germany); Matthias Wählisch (Freie Universität Berlin, Germany); Lothar Grimm (Deutsche Telekom AG, T-Systems, Germany); Thomas Kluge (Deutsche Telekom AG, T-Systems, Germany); Peter Pogrzeba (Deutsche Telekom AG, Laboratories, Germany)

Demonstration of a Showcase on Usage and Monitoring of the HAMcast-Architecture for Universal Multicast
Sebastian Meiling (Hamburg University of Applied Sciences, Germany); Dominik Charousset (HAW Hamburg, Germany); Thomas C. Schmidt (HAW Hamburg (DE), Germany); Matthias Wählisch (Freie Universität Berlin, Germany)

Demonstration of Z-Monitor: A Monitoring Software for IEEE 802.15.4 Wireless Sensor Networks
Olfa Gaddour (National School of ENgineers of Sfax, Tunisia); Anis Koubâa (Al-Imam Mohamed bin Saud University Riyadh / Cister Research Group Porto, Saudi Arabia); Rihab Chaari (ENIS, Tunisia); Fernando Royo (University of Castilla-La Mancha, Spain); Nada Al-Elaiwi (IMAMU, Saudi Arabia); Hanan Al-Soli (IMAMU, Saudi Arabia); Stefano Tennina (CISTER/ISEP, Polytechnic Institute of Porto, Portugal); Hichem Boujelben (ENIS, Tunisia)
Demonstration of the Sensor Data Transmission and Management Protocol (STMP)
Nils Aschenbruck (University of Bonn, Germany); Christoph Fuchs (University of Bonn & Fraunhofer FKIE, Germany); Sascha Jopen (University of Bonn, Germany); Tim Schneider (University of Bonn, Germany)

WSNLab - a Security Testbed and Security Architecture for WSNs
Nils Aschenbruck (University of Bonn, Germany); Jan Bauer (University of Bonn, Germany); Jakob Bieling (University of Bonn, Germany); Alexander Bothe (University of Bonn, Germany); Matthias Schwamborn (University of Bonn, Germany)

An Experimental Architecture of IP-based Network Control of Laser Show Projection Systems
Matthias Frank (University of Bonn, Germany)

Mobile P2P Trusted On-Demand Video Streaming
Thava Iyer (NICTA, Australia); Robert Hsieh (Institute for Infocomm Research & Agency for Science, Technology and Research, Singapore); Nikzad Babaii (University of Sydney, Australia); Benoy Varghese (NICTA, Australia); Roksana Boreli (National ICT Australia & University of NSW, Australia)

Deployment of CoAP in Transport Logistics
Markus Becker (University of Bremen, Germany); Thomas Pötsch (University of Bremen, Germany); Koojana Kuladinithi (University of Bremen, Germany); Carmelita Goerg (University of Bremen, Germany)

Automatic Analysis and Classification of Multiple Origin Autonomous System Conflicts
Uli Alexander Bornhauser (University of Bonn, Germany); Jan Luehr (University of Bonn, Germany); Michael Schaefer (University of Bonn, Germany); Thomas Trimborn (University of Bonn, Germany); Zia Ul Huda (University of Bonn, Germany)

Efficient Real-Time Monitoring of Multimodal Transports with Wireless Sensor Networks
Sebastian Zöller (Technische Universität Darmstadt, Germany); Markus Wachtel (Technische Universität Darmstadt, Germany); Melanie Siebenhaar (Technische Universität Darmstadt, Germany); Ralf Steinmetz (Technische Universität Darmstadt, Germany)

Poster Presentations with Tea

Room: Rhein
Chair: Anura Jayasumana (Colorado State University, USA)

A Power Control Mechanism for Non-Cooperative Packet Forwarding in Ad Hoc Networks
Yi Sun (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Lu Shan (ICT, Chinese Academy of Sciences, P.R. China); Ge Yuming (Institute of Computing Technology, CHINESE ACADEMY OF
A Power-Aware Framework for Distributed Data Fusion Application in Wireless Sensor Networks
Zongqing Lu (Nanyang Technological University, Singapore); Su-Lim Tan (Nanyang Technological University, Singapore); Jit Biswas (Institute for Infocomm Research, Singapore)
pp. 127-130

Hybrid Web Server: Traffic Analysis and Prototype
Matthew Olson (University of South Florida, USA); Ken Christensen (University of South Florida, USA); SangHak Lee (Korea Electronics Technology Institute, Korea); Jungmee Yun (Korea Electronics Technology Institute, Korea)
pp. 131-134

Improving the Stability of eXplicit Control Protocol Under Heterogeneous Delays
Hairui Zhou (Shanghai Jiao Tong University, P.R. China); Chengchen Hu (Xi'an Jiaotong University, P.R. China); Jian Li (Shanghai Jiao Tong University, P.R. China); Lina He (Tongji University, P.R. China); Fei Hu (Shanghai Jiao Tong University, P.R. China)
pp. 135-138

Entropy Based SYN Flooding Detection
Laleh Arshadi (Sharif University of Technology, Iran); Amir Hossein Jahangir (Sharif University of Technology, Iran)
pp. 139-142

About Prefix Hijacking in the Internet
Uli Alexander Bornhauser (University of Bonn, Germany); Peter Martini (University of Bonn, Germany)
pp. 143-146

NAT Hole Punching Revisited
Daniel Maier (Konstanz University of Applied Sciences, Germany); Oliver Haase (Konstanz University of Applied Sciences, Germany); Jürgen Wäsch (Konstanz University of Applied Sciences, Germany); Marcel Waldvogel (University of Konstanz, Germany)
pp. 147-150

dVirt: a Virtualized Infrastructure for Experimenting BGP Routing
Iuniana Oprescu (Orange Labs, France); Mickael Meulle (Orange Labs R&D & France Telecom, France); Philippe Owezarski (LAAS-CNRS, France)
pp. 151-154

Kernel-Based Markov Random Fields Learning for Wireless Sensor Networks
Wei Zhao (Indiana University Purdue University Indianapolis, USA); Yao Liang (Indiana University Purdue University Indianapolis, USA)
pp. 155-158
SACM: Stateful Access Control Model
André dos Santos (State University of Ceará, Brazil); Vincent Scarlata (Universidade Estadual do Ceará & INTEL, Brazil); Anderson Lima (Universidade Estadual do Ceará & Instituto Federal do Ceará, Brazil); Inácio Alves (State University of Ceará, Brazil); Davi di Cavalcanti Sampaio (Universidade Estatual do Ceará, Brazil)
pp. 159-162

Frame Rate Control for Video Streaming
Evan Tan (University of New South Wales, Australia); Chun Tung Chou (University of New South Wales, Australia)
pp. 163-166

A Simple Priority Control Mechanism for Performance Improvement of Mobile Ad-hoc Networks
Daiki Nobayashi (Kyushu Institute of Technology, Japan); Yutaka Fukuda (Kyushu Institute of Technology, Japan); Takeshi Ikenaga (Kyushu Institute of Technology, Japan)
p. 167-170

Analysis of Quantization Effects on Performance of Hierarchical Cooperation Schemes in Ad-Hoc Wireless Networks
Seyed Pooya Shariatpanahi (Sharif University of Technology, Iran); Babak Hossein Khalaj (Sharif University of Technology, Iran)
p. 171-174

Extending Node Protection Concept of P-Cycles for an Efficient Resource Utilization in Multicast Traffic
Ahmed Frika (INRIA/IRISA - University of Rennes 1, France); Bernard Cousin (IRISA, University of Rennes 1 & IRISA research laboratory, France); Samer Lahoud (IRISA, University of Rennes 1, France)
p. 175-178

Performance Modelling of Broadcast Polling Protocol in Unsaturated IEEE 802.16 Networks
Jianqing Liu (City University of Hong Kong, Hong Kong); Sammy Chan (City University of Hong Kong, Hong Kong); Hai L. Vu (Swinburne University of Technology, Australia)
p. 179-182

Intrusion Detection System Using Optimum-Path Forest
Clayton Pereira (UNESP - Univ Estadual Paulista, Brazil); Rodrigo Nakamura (Unesp Univ Estadual Paulista, Brazil); João Paulo Papa (UNESP - Univ Estadual Paulista, Brazil); Kelton Costa (São Paulo State Technology College at Bauru, Brazil)
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Probability of Handoff for Users Moving with the Random Waypoint Mobility Model
Enrica Valeria Zola (Universidad Politécnica de Cataluña (UPC), Spain); Francisco Barcelo-Arroyo (Universitat Politecnica de Catalunya (UPC), Spain)
p. 187-190
### Exploring Security Improvement of Wireless Networks with Directional Antennas
Hong-Ning Dai (Macau University of Science and Technology, Macao); Dong Li (Macau University of Science and Technology, Macao); Raymond Chi-Wing Wong (Hong Kong University of Science and Technology, Hong Kong)
pp. 191-194

### G-NetMon: a GPU-accelerated Network Performance Monitoring System for Large Scale Scientific Collaborations
Wenji Wu (Fermi National Accelerator Lab, USA); Phil DeMar (Fermilab, USA); Don Holmgren (Fermi National Accelerator Laboratory, USA); Amitoj Singh (Fermilab, USA); Ruth Pordes (Fermilab, USA)
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### Link Scheduling in Multi-Transmit-Receive Wireless Networks
Hong-Ning Dai (Macau University of Science and Technology, Macao); Soung Chang Liew (The Chinese University of Hong Kong, Hong Kong); Liqun Fu (The Chinese University of Hong Kong, Hong Kong)
pp. 199-202

### Intelligent Distributed Multimedia Collection: Content Aggregation and Integration
Jelle Nelis (Ghent University - IBBT, Belgium); Dieter Verslype (Ghent University - IBBT, Belgium); Chris Develder (Ghent University - IBBT, Belgium)
pp. 203-206

### Scoresheet-based Event Relevance Determination for Energy Efficiency in Wireless Sensor Networks
Sebastian Zöller (Technische Universität Darmstadt, Germany); Andreas Reinhardt (Technische Universität Darmstadt, Germany); Stefan Schulte (Technische Universität Darmstadt, Germany); Ralf Steinmetz (Technische Universität Darmstadt, Germany)
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### RegionDCF: a Self-Adapting CSMA/Round-Robin Media Access Protocol for WLAN
Alberto Riggi (Pisa University, Italy); Javier Gomez (National University of Mexico, Mexico)
pp. 211-214

### Evaluation and Comparison of MBAC Solutions
Doreid Ammar (INRIA & LIP, ENS Lyon, France); Thomas Begin (Université de Lyon 1, France); Isabelle Guerin-Lassous (Université de Lyon - LIP, France); Ludovic Noirie (Alcatel-Lucent France, France)
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### Enabling Cognition in System of Systems: The Distributed Self-Growing Architecture
Marc Emmelmann (Fraunhofer FOKUS, Germany); Bernd Bochow (Fraunhofer FOKUS, Germany)
pp. 219-222
Optimal Transmission Range for Multi-hop Communication in Wireless Sensor and Actor Networks
Hyunbum Kim (The University of Texas at Dallas, USA); Jorge A. Cobb (The University of Texas at Dallas, USA)
pp. 223-226

Formal Validation of the Security Properties of AMT’s Three-way Handshake
Ali Salem (Concordia University, Canada); J. William Atwood (Concordia University, Canada)
pp. 227-230

A Conditional Retransmission Enabled Transport Protocol for Real-Time Networked Control Systems
Li Gui (Queensland University of Technology, Australia); Yu-Chu Tian (Queensland University of Technology, Australia); Colin Fidge (Queensland University of Technology, Australia)
pp. 231-234

Tracking Targets in Quantized Areas with Wireless Sensor Networks
Efren Lopes Souza (Federal University of Amazonas, Brazil); Andre Campos (Federal University of Amazonas, Brazil); Eduardo Freire Nakamura (FUCAPI - Research and Technological Innovation Center, Brazil)
pp. 235-238

Enabling Self-Adaptive QoE/QoS Control
Solange Rito Lima (University of Minho, Portugal); Paulo Carvalho (University of Minho, Portugal)
pp. 239-242

Collaborative Data Collection in Global Sensing Systems
Gregory Bigwood (University of St Andrews, United Kingdom); Aline Carneiro Viana (INRIA/TU-Berlin, France); Marcelo Dias de Amorim (UPMC Sorbonne Universités, France); Mathias Boc (CEA, LIST, Communicating Systems Laboratory, France)
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Effective Utilization of Place as a Resource in Pocket Switched Networks
Mohammad Hashemian (University of Saskatchewan, Canada); Kevin Stanley (University of Saskatchewan, Canada)
pp. 247-250

Boundary Node Selection Algorithms in WSNs
Ali Rafiei (University of Technology Sydney, Australia); Mehran Abolhasan (University of Technology Sydney, Australia); Daniel Franklin (University of Technology Sydney, Australia); Farzad Safaei (ICT Research Institute, University of Wollongong, Australia)
pp. 251-254

Server Selection and Admission Control for IP-based Video on Demand Using Available Bandwidth Estimation
Brian Meskill (Waterford Institute of Technology, Ireland); Alan Davy (Waterford Institute of Technology, Ireland); Brendan Jennings (Waterford Institute of Technology, Ireland)
pp. 255-258
Performance Comparison of BER-based Routing Protocols Under Realistic Conditions
Tiguiane Yélémou (University of Poitiers, France); Jonathan Ledy (Université de Poitiers, France); Benoit Hilt (University of Haute Alsace, France); Anne-Marie Poussard (Université de Poitiers, France); Philippe Meseure (University of Poitiers, France)
p. 259-262

A Coordination Layer to Handle Real-Time Communication in Wi-Fi Networks with Uncontrolled Traffic Sources
Robson Costa (University of Porto, Portugal); Paulo Portugal (University of Porto, Portugal); Francisco Vasques (University of Porto, Portugal); Ricardo Moraes (University of Porto, Portugal); Ricardo Felipe Custódio (Federal University of Santa Catarina, Brazil)
p. 263-266

An Experimental Study of Client-Side Spotify Peering Behaviour
Martin Ellis (University of Glasgow, United Kingdom); Stephen D. Strowes (University of Glasgow, United Kingdom); Colin Perkins (University of Glasgow, United Kingdom)
p. 267-270

SCARKER: a Sensor Capture Resistance and Key Refreshing Scheme for Mobile WSNs
Yi Ren (University of Agder, Norway); Vladimir Oleshchuk (University of Agder, Norway); Frank Y. Li (University of Agder, Norway); Selo Sulistyo (University of Agder, Norway)
p. 271-274

Providing Quality of Service Over Time Delay Networks by Efficient Queue Management
Hao Wang (The Chinese University of Hong Kong, Hong Kong); Chenda Liao (University of Florida, USA); Zuohua Tian (Shanghai Jiao Tong University, P.R. China)
p. 275-278

A Simulation Study of Application-Layer Traffic Optimization Protocol for P2P Applications
Byungryeol Sim (Chungnam National University, Korea); Yeonhee Lee (Chungnam National University, Korea); Youngseok Lee (Chungnam National University, Korea)
p. 279-282

Challenges and Limits of Flooding and Gossip Routing Based Route Discovery Schemes
Bastian Blywis (Freie Universität Berlin, Germany); Mesut Guenes (Freie Universität Berlin, Germany); Felix Juraschek (Freie Universität Berlin, Germany); Oliver Hahm (Freie Universität Berlin, Germany)
p. 283-286

Topology Stability-Aware Multicast Protocol for MANETs
Jose Mocito (Inesc-ID / FCUL, Portugal); Oksana Denysyuk (Instituto Superior Tecnico, Lisbon & INESC-ID, Portugal); Luis Rodrigues (Inesc-ID, Portugal)
Instituto Superior Técnico, Universidade Técnica de Lisboa, Portugal); Hugo Miranda (Universidade de Lisboa, Portugal) pp. 287-290

**Testing Embedded Software by Metamorphic Testing: a Wireless Metering System Case Study**

Fei-Ching Kuo (Swinburne University of Technology, Australia); Tsong Yueh Chen (Swinburne University of Technology, Australia); Wing K Tam (Swinburne University of Technology & Zodicom Limited, Australia) pp. 291-294

**Quantitative Analysis for Authentication of Low-cost RFID Tags**

Ioannis Paparrizos (EPFL, Switzerland); Stylianos Basagiannis (Aristotle University of Thessaloniki, Greece); Sophia Petridou (Aristotle University of Thessaloniki, Greece) pp. 295-298

**Interframe Spacing Adaptation Method for IEEE 802.11 WLANs Coexisting with IEEE 802.16 Networks**

Boram Choi (Gwangju Institute of Science and Technology, Korea); Daewon Jung (Gwangju Institute of Science and Technology, Korea); Hyuk Lim (Gwangju Institute of Science and Technology, Korea) pp. 299-302

**Coverage Extension Based on Incentive Scheduler for Mobile Relaying Nodes in Wireless Networks**

Cedric Gueguen (Universite Pierre et Marie Curie, France); Abderrezak Rachedi (University Paris-Est Marne-la-Vallée, France) pp. 303-306

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**16:45 - 16:45**

**LCN Wednesday - End of Technical Program**

**17:15 - 17:30**

**Social Event - Busses leave for transfer**

**18:00 - 22:00**

**Social Event**

Chair: Matthias Frank (University of Bonn, Germany)
Thursday, October 6

08:55 - 09:00

Opening

Room: Rhein
Chair: Chun Tung Chou (University of New South Wales, Australia)

09:00 - 10:00

Keynote 2: Guoliang (Larry) Xue, Arizona State University

Resource Allocation in Cooperative Networks: The Role of Games
Room: Rhein
Chair: Chun Tung Chou (University of New South Wales, Australia)

10:00 - 10:30

Coffee break

10:30 - 12:35

Peer2Peer Networks

Room: Rhein
Chair: Oliver P. Waldhorst (Ilmenau University of Technology & Karlsruhe Institute of Technology (KIT, Germany)

A Performance Study of Network Operator-friendly P2P Traffic Control Technique
HyunYong Lee (National Institute of Information and Communications Technology, Japan); Akihiro Nakao (University of Tokyo, Japan)
pp. 307-314

LiveShift: Mesh-Pull Live and Time-Shifted P2P Video Streaming
Fabio V Hecht (University of Zurich, Switzerland); Thomas Bocek (University of Zurich, Switzerland); Richard G Clegg (University College London, United Kingdom); Raul Landa (University College London, United Kingdom); David Hausheer (UC Berkeley & University of Zurich, USA); Burkhard Stiller (University of Zürich & ETH Zürich, TIK, Switzerland)
pp. 315-323

Environmental Context Aware Trust in Mobile P2P Networks
Upendra Rathnayake (University of New South Wales, Australia); Vijay Sivaraman (University of New South Wales, Australia); Roksana Boreli (National ICT Australia & University of NSW, Australia)
pp. 324-332
**Improving BitTorrent Download Times Using Community Partners**  
Marc Espelt Palau (Universitat Rovira i Virgili, Spain); Pedro García López (Universitat Rovira i Virgili, Spain)  
pp. 333-340

**A Performance Study of Peer-assisted File Distribution with Heterogeneous Swarms**  
Cristina Carbunaru (National University of Singapore, Singapore); Yong-Meng Teo (National University of Singapore, Singapore); Ben Leong (National University of Singapore, Singapore)  
pp. 341-349

### WSN - Energy Harvesting and Energy Efficiency

**Network Lifetime Maximization in Sensor Networks with Multiple Mobile Sinks**  
Weifa Liang (Australian National University, Australia); Jun Luo (National University of Defense Technology, P.R. China)  
pp. 350-357

**Reliable Sensor-to-Sink Data Transfer with Duty Cycles for Wireless Sensor Networks**  
Sirisha Medidi (Boise State University, USA); Vamsi Nandanavanam (Alcatel-Lucent Inc & Boise State University, USA); Muralidhar Medidi (Boise State University, USA)  
pp. 358-365

**Probabilistic Data Collection Protocols for Energy Harvesting Sensor Networks**  
Masaya Yoshida (Shizuoka University, Japan); Tomoya Kitani (Shizuoka University, Japan); Masaki Bandai (Sophia University, Japan); Takashi Watanabe (Shizuoka University, Japan); Pai H. Chou (University of California, Irvine, USA); Winston K.G. Seah (Victoria University of Wellington, New Zealand)  
pp. 366-373

**Energy-Efficient Retransmission Strategies Under Variable TDMA Scheduling in Body Area Networks**  
Yuri Tselishchev (University of Sydney & NICTA, Australia); Lavy Libman (University of Sydney, Australia); Athanassios Boulis (National ICT Australia, Australia)  
pp. 374-381

**SDF - Solar-Aware Distributed Flow in Wireless Sensor Networks**  
Immanuel Schweizer (Technische Universität Darmstadt, Germany); Nils Fleischhacker (Technische Universität Darmstadt, Germany); Max Mühlhäuser (Technical University Darmstadt, Germany); Thorsten Strufe (TU Darmstadt & University of Mannheim, Germany)  
pp. 382-390
Traffic and Measurements

**Room: Berlin**
Chair: Bogdan Ghita (University of Plymouth, United Kingdom)

**Global Vs. Per-Domain Monitoring of Multi-Domain Networks**  
Emna Salhi (IRISA, France); Samer Lahoud (IRISA, University of Rennes 1, France); Bernard Cousin (IRISA, University of Rennes 1 & IRISA research laboratory, France)  
pp. 391-398

**Practical Machine Learning Based Multimedia Traffic Classification for Distributed QoS Management**  
Sebastian Zander (Swinburne University of Technology, Australia); Grenville Armitage (Swinburne university of Technology, Australia)  
pp. 399-406

**Extracting Baseline Patterns in Internet Traffic Using Robust Principal Components**  
Vidarshana W Bandara (Colorado State University, USA); Anura Jayasumana (Colorado State University, USA)  
pp. 407-415

**S3: Smart Selection of Sampling Function for Passive Network Measurement**  
Xingyu Ma (Tsinghua University & MoE Key Lab for Intelligent Networks and Network Security, Xi'an Jiaotong University, P.R. China); Chengchen Hu (Xi'an Jiaotong University, P.R. China); Junchen Jiang (Tsinghua University, P.R. China); Jing Wang (Tsinghua University, P.R. China)  
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**12:35 - 13:45**

Lunch Break

**13:45 - 15:25**

Security, Privacy and Anonymity

**Room: Rhein**
Chair: Matthias Hollick (Technische Universität Darmstadt & Secure Mobile Networking Lab, Center for Advanced Security Research Darmstadt, Germany)

**Security and Privacy for WLAN Roaming with Per-Connection Tariff Negotiation**  
Johannes Barnickel (RWTH Aachen University, Germany); Ulrike Meyer (RWTH Aachen, Germany)  
pp. 424-431
Tor is Unfair - and What to Do About It
Florian Tschorsch (University of Wuerzburg, Germany); Björn Scheuermann (University of Bonn, Germany)
pp. 432-440

Flooding Attacks Detection in Traffic of Backbone Networks
Osman Salem (University of Paris Descartes, France); Ali Makke (University of Paris Descartes, France); Jean Tajer (Paris Descartes University, France); Ahmed Mehaoua (University of Paris Descartes, France)
pp. 441-449

Comparison of Authenticated-Encryption Schemes in Wireless Sensor Networks
Marcos A. Simplicio Jr. (University of São Paulo, Brazil); Bruno T. de Oliveira (University of São Paulo, Brazil); Paulo S. L. M. Barreto (University of São Paulo, Brazil); Cintia B Margi (University of São Paulo & Escola Politécnica, Brazil); Tereza C. M. B. Carvalho (University of São Paulo, Brazil); Mats Naslund (Ericsson Research, Sweden)
pp. 450-457

WSN - Applications and Services

Room: Paris-Rom
Chair: Fernando Boronat (Universitat Politecnica de Valencia & Instituto de Investigación para la Gestión Integrada de Zonas Costeras, Spain)

Toward a High-Fidelity Wireless Sensor Network for Rehabilitation Supervision
Abdelkrim Hadjidj (Université de Technologie de Compiègne & HEUDIASYC UMR CNRS 6599, France); Yacine Challal (Compiègne University of Technology, Heudiasyc lab., France); Abdelmadjid Bouabdallah (Universite de Technologie - Compiègne, France)
pp. 458-465

Efficient Temporal Compression in Wireless Sensor Networks
Yao Liang (Indiana University Purdue University Indianapolis, USA)
pp. 466-474

STMP - Sensor Data Transmission and Management Protocol
Nils Aschenbruck (University of Bonn, Germany); Christoph Fuchs (University of Bonn & Fraunhofer FKIE, Germany)
pp. 475-483

Deployment and Mobility for Animal Social Life Monitoring Based on Preferential Attachment
Mustafa Ilhan Akbas (University of Central Florida, USA); Matthias R Brust (University of Central Florida, USA); Carlos H. C. Ribeiro (Technological Institute of Aeronautics, Brazil); Damla Turgut (University of Central Florida, USA)
pp. 484-491
Resource Allocation and Scheduling

Room: Berlin
Chair: Hossam S. Hassanein (Queen's University, Canada)

G-Local Resource Management: Achieving Global Optimization Via Local Inference Without Message Passing
Chen Liu (University of Alberta, Canada); Janelle Harms (University of Alberta, Canada); Mike MacGregor (University of Alberta, Canada)
pp. 492-500

Exploiting the Full Potential of Multi-AP Diversity in Centralized WLANs Through Back-pressure Scheduling
Anfu Zhou (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Min Liu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Tong Shu (Institute of Computing Technology, Chinese Academy of Sciences & Graduate University of Chinese Academy of Sciences, P.R. China); Yilin Song (China Mobile Research Institute, P.R. China); Zhongcheng Li (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)
pp. 501-509

Design and Analysis of Effective Price for Congestion Control
Hao Wang (The Chinese University of Hong Kong, Hong Kong); Bo Wang (TELECOM ParisTech, France); Jiezhi Chen (University of Florence, Italy); Zuohua Tian (Shanghai Jiao Tong University, P.R. China)
pp. 510-518

Implementation of WFQ in a Distributed Open Software Router
Azeem J. Khan (IIT Bombay, India); Anirudha Sahoo (IIT Bombay, India); D. Manjunath (IIT Bombay, India)
pp. 519-527

15:25 - 15:55
Tea break

15:55 - 17:35

Mobile and Wireless Networks

Room: Rhein
Chair: Yao Liang (Indiana University Purdue University Indianapolis, USA)

dMME: Virtualizing LTE Mobility Management
Xue Li An (Bell Labs, Alcatel-Lucent, Belgium); Fabio Pianese (Bell Labs, Alcatel-Lucent, Belgium); Indra Widjaja (Bell Labs, Alcatel-Lucent, USA); Utku Güney Acer (Alcatel-Lucent Bell Laboratories, Belgium)
pp. 528-536
Mercury-like Routing for High Mobility Wireless Ad Hoc Networks
Ai Hua Ho (University of Central Florida, USA); Yao Hua Ho (Academia Sinica, Taiwan); Kien Hua (University of Central Florida, USA)
pp. 537-545

Channel Sensing Order for Cognitive Radio Networks Using Reinforcement Learning
Andre C. Mendes (Federal University of Rio de Janeiro, Brazil); Carlos Henrique P. Augusto (Universidade Federal do Rio de Janeiro, Brazil); Marcel W. R. da Silva (Federal University of Rio de Janeiro, Brazil); Raphael Guedes (Federal University of Rio de Janeiro, Brazil); Jose F. de Rezende (Federal University of Rio de Janeiro & Grupo de Teleinformática e Automação, Brazil)
pp. 546-553

Performance of Content Replication in MobiTribe: a Distributed Architecture for Mobile UGC Sharing
Kanchana Thilakarathna (National ICT Australia & The University of New South Wales, Australia); Henrik Petander (National ICT Australia, Australia); Aruna Seneviratne (University of New South Wales, Australia)
pp. 554-562

WSN - Self-Organization and Coverage

Room: Paris-Rom
Chair: Carlos H. C. Ribeiro (Technological Institute of Aeronautics, Brazil)

APAWSAN: Actor Positioning for Aerial Wireless Sensor and Actor Networks
Mustafa Ilhan Akbas (University of Central Florida, USA); Damla Turgut (University of Central Florida, USA)
pp. 563-570

Anchor Selection and Topology Preserving Maps in WSNs - a Directional Virtual Coordinate Based Approach
Dulanjalie C Dhanapala (Colorado State University, USA); Anura Jayasumana (Colorado State University, USA)
pp. 571-579

On Area Coverage Reliability of Wireless Sensor Networks
Mohamed Shazly (University of Alberta, Canada); Ehab S. Elmallah (University of Alberta, Canada); Janelle Harms (University of Alberta, Canada); Hosam Aboelfotoh (Kuwait University, Kuwait)
pp. 580-588

AWARE: Activity AWARE Network Clustering for Wireless Sensor Networks
Iñigo Urteaga (Tecnalia, Spain); Na Yu (Colorado School of Mines, USA); Nicholas Hubbell (Lockheed Martin Corporation, USA); Qi Han (Colorado School of Mines, USA)
pp. 589-596

Performance Evaluation

Room: Berlin
Chair: Martin Tunnicliffe (Kingston University, United Kingdom)
Optimal Throughput for 802.11 DCF with Multiple Packet Reception
Mingrui Zou (City University of Hong Kong, Hong Kong); Sammy Chan (City University of Hong Kong, Hong Kong); Hai L. Vu (Swinburne University of Technology, Australia); Chongbin Xu (Tsinghua University, P.R. China); Li Ping (City University of Hong Kong, Hong Kong)
pp. 597-603

An Evaluation of Live Adaptive HTTP Segment Streaming Request Strategies
Tomas Kupka (University of Oslo, Norway); Pål Halvorsen (Simula Research Laboratory & Department of Informatics, University of Oslo, Norway); Carsten Griswold (Simula Research Laboratory, Norway)
pp. 604-612

Smooth Control of Adaptive Media Playout to Acquire IDMS in Cluster-based Applications
Fernando Boronat (Universitat Politecnica de Valencia & Instituto de Investigación para la Gestión Integrada de Zonas Costeras, Spain); Mario Montagud (Universidad Politécnica de Valencia & IGIC Institute, Spain); Vicente Vidal (Universidad Politécnica de Valencia, Spain)
pp. 613-621

A Nash Stackelberg Approach for Network Pricing, Revenue Maximization and Vertical Handover Decision Making
Mariem Zekri (Telecom SudParis, France); Makhlof Hadji (Institut Télécom, Télécom SudParis, France); Badii Jouaber (Institut TELECOM - Telecom SudParis & cnrs UMR-SAMOVAR, France); Djamal Zeghlache (Institut TELECOM, TELECOM SudParis, France)
pp. 622-629

Friday, October 7

08:30 - 09:00

WLN: Opening

11th IEEE International Workshop on Wireless Local Networks
Room: Rhein
Chair: Lynda Mokdad (Université de Paris 12 & Laboratoire LACL, France)

P2MNET: Opening

7th IEEE International Workshop on Performance and Management of Wireless and Mobile Networks
Room: Berlin
Chair: Jalel Ben-othman (University of Paris 13, France)

ON-MOVE: Opening

5th IEEE LCN Workshop On User MObility and VEhicular Networks
Room: Paris-Rom
Chair: Robert Brännström (Luleå University of Technology, Sweden)

09:00 - 10:00

WLN Keynote: Madjid Merabti, Liverpool John Moores University

Wireless Communication Security in Critical Infrastructures
Room: Rhein
Chair: Lynda Mokdad (Université de Paris 12 & Laboratoire LACL, France)

09:00 - 10:15

P2MNET: Wireless Networks

Room: Berlin
Chair: Patrik Arlos (Blekinge Institute of Technology, Sweden)

Performance Comparison of NBI Suppression Methods for MIMO OSTBC-OFDM Systems
Georgi Iliev (Technical University of Sofia, Bulgaria); Vladimir Poulkov (Technical University of Sofia, Bulgaria); Miglen Ovtcharov (Technical University of Sofia, Bulgaria)
pp. 630-633

Channel Characteristic Aware Spectrum Aggregation Algorithm in Cognitive Radio Networks
Jintao Lin (National Mobile Communications Research Laboratory, Southeast University, P.R. China); Lianfeng Shen (National Mobile Communications Research Laboratory, Southeast University, P.R. China); Nan Bao (National Mobile Communications Research Laboratory, Southeast University, P.R. China); Bailong Su (National Mobile Communications Research Laboratory, Southeast University, P.R. China); Zhipeng Deng (National Mobile Communications Research Laboratory, Southeast University, P.R. China); Dayang Wang (National Mobile Communications Research Laboratory, Southeast University, P.R. China)
pp. 634-639

Wi-Design: A Modelling and Optimization Tool for Wireless Embedded Systems in Buildings
Alan McGibney (Nimbus Centre for Embedded Systems Research & Cork Institute of Technology, Ireland); Antony Guinard (Cork Institute of Technology, Ireland); Dirk Pesch (Cork Institute of Technology, Ireland)
pp. 640-648

09:00 - 10:00

ON-MOVE: Keynote: Marc Emmelmann, Fraunhofer FOKUS

Room: Paris-Rom
Chair: Soumaya Cherkaoui (Université de Sherbrooke, Canada)
10:00 - 10:30

Coffee break

10:30 - 12:00

WLN: WLAN and Ad Hoc Networks

Room: Rhein
Chair: Lynda Mokdad (Université de Paris 12 & Laboratoire LACL, France)

The Impact of the Reliability on the Fairness Between the Unicast and the Multicast in Highly Loaded WLANs
Yousri Daldoul (LaBRI - University of Bordeaux 1 & France Telecom - Orange Labs, France); Djamel-Eddine Meddour (Orange Labs, France); Toufik Ahmed (University of Bordeaux-1 / CNRS-LaBRI, France)
pp. 835-840

Raptor-based Reliable Unicast Content Delivery in Wireless Network Environments
Miguel Bágueña (Universidad Politécnica de Valencia, Spain); Carlos T. Calafate (Universidad Politécnica de Valencia, Spain); Juan-Carlos Cano (Universidad Politécnica de Valencia, Spain); Pietro Manzoni (Universidad Politécnica de Valencia, Spain)
pp. 841-849

A Light Weight Security Scheme for HWMP Protocol Using Elliptic Curve Technique
Jalel Ben-othman (University of Paris 13, France); Yesica Imelda Saavedra Benítez (University of Versailles, France)
pp. 850-854

SINR Analysis of Time and Frequency Offsets in OFDM Systems
Shahrouz Sharifi (Sharif University of Technology, Iran); Babak Hossein Khalaj (Sharif University of Technology, Iran)
pp. 855-859

10:30 - 11:30

ON-MOVE: Mobility

Room: Paris-Rom
Chair: Karl Andersson (Luleå University of Technology, Sweden)

Session mobility in multimedia services enabled by the cloud and peer-to-peer paradigms
Dan Johansson (Lulea University of Technology, Sweden)
pp. 770-776
Flock Detection Based Duty Cycle Scheduling in Mobile Wireless Sensor Networks
Xiaoguang Zhang (Bond University, Australia); Zheng Da Wu (Bond University, Australia)
pp. 777-784

10:45 - 12:00

P2MNET: Wireless Mesh and Sensor Networks

Room: Berlin
Chair: Damla Turgut (University of Central Florida, USA)

Design and Deployment Tool for In-Building Wireless Sensor Networks: a Performance Discussion
Antony Guinand (Cork Institute of Technology, Ireland); Muhammad Sohaib Aslam (Cork Institute of Technology, Ireland); Davide Pusceddu (Cork Institute of Technology & Nimbus Centre, Ireland); Susan Rea (Cork Institute of Technology, Ireland); Alan McGibney (Nimbus Centre for Embedded Systems Research & Cork Institute of Technology, Ireland); Dirk Pesch (Cork Institute of Technology, Ireland)
pp. 649-656

Human Society Inspired Routing For Wireless Sensor Network
Hamideh Sadat Cheraghchi (School of Computer Science, IPM, Iran); Abas Nayebi (IPM School of Computer Science, Iran)
pp. 657-665

A Tree-based Approach to Design Heterogeneous Sensor Networks Based on Small World Concepts
Daniel L. Guidoni (Federal University of Minas Gerais, Brazil); Azzedine Boukerche (University of Ottawa, Canada); Leandro Aparecido Villas (UFMG, Brazil); Raquel A. F. Mini (PUC Minas, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)
pp. 666-672

11:30 - 12:30

ON-MOVE: Posters and Demos

Room: Paris-Rom
Chair: Stefan Aust (NEC Communication Systems, Ltd., Japan)

Mobile VoIP User Experience in LTE
Karl Andersson (Luleå University of Technology, Sweden); Seraj Al Mahmud Mostafa (Luleå University of Technology, Sweden); Raihan UI-Islam (Luleå University of Technology, Sweden)
pp. 785-788
Proposal of Ride-Sharing System Using Harmonic Aggregation of User Demands
Satoko Itaya (NEC Corporation, Japan); Rie Tanaka (NEC Corporation, Japan); Naoki Yoshinaga (NEC Corporation, Japan); Taku Konishi (NEC Corporation, Japan); Shin-ichi Doi (NEC Corporation, Japan); Keiji Yamada (NEC C&C Innovation Research Laboratories, Japan)
pp. 789-792

Sensor Monitoring of Bridge Movement: A System Architecture
Robert Brännström (Luleå University of Technology, Sweden); Daniel Granlund (Luleå University of Technology, Sweden)
pp. 793-796

12:30 - 13:30
Lunch Break

13:30 - 15:00
WLN: Wireless Sensor Networks

Room: Rhein
Chair: Yesica Imelda Saavedra Benitez (University of Versailles, France)

Analyses of MAC Performance for Multi-Carrier Based Wireless Sensor Networks
Fei Qin (University College London, United Kingdom); John Mitchell (University College London, United Kingdom)
pp. 860-866

Wireless Sensor Networks for Social Network Data Collection
Erick Stattner (University of the French West Indies and Guiana & LAMIA Lab., Martinique); Martine Collard (LAMIA Lab, University of the French West Indies and Guiana, Guadeloupe); Philippe Hunel (University of Antilles Guyane, France); Nicolas Vidot (University of Antilles Guyane & LAMIA, Martinique)
pp. 867-874

Studying the Feasibility of IEEE 802.15.4-Based WSNs for Gas and Fire Tracking Applications Through Simulation
Carlos Lino (Universidad Politécnica de Valencia, Spain); Carlos T. Calafate (Universidad Politécnica de Valencia, Spain); Arnoldo Diaz Ramirez (Instituto Tecnológico de Mexico, Mexico); Pietro Manzoni (Universidad Politécnica de Valencia, Spain); Juan-Carlos Cano (Universidad Politecnica de Valencia, Spain)
pp. 875-881
An Energy-Aware Spatial Correlation Mechanism to Perform Efficient Data Collection in WSNs
Leandro Aparecido Villas (UFMG, Brazil); Azzedine Boukerche (University of Ottawa, Canada); Daniel L. Guidoni (Federal University of Minas Gerais, Brazil); Regina Borges de Araujo (Federal University of São Carlos, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)
pp. 882-889

13:45 - 15:00

P2MNET: Ubiquitous Networks and Mobile Networks

Room: Berlin
Chair: Vladimir Poulkov (Technical University of Sofia, Bulgaria)

Scalability Issues in Localizing Things
Walid Mohiyeldin Ibrahim (Queen's University, Canada); Abd-Elhamid M. Taha (Queen's University, Canada); Hossam S. Hassanein (Queen's University, Canada)
pp. 673-680

A Novel Teletraffic-based Power Saving Scheme for Cellular Networks with Microcells
Ziaul Haq Abbas (University of Agder (UiA), Norway); Frank Y. Li (University of Agder, Norway)
pp. 681-687

Evaluation of Protocol Treatment in 3G Networks
Patrik Arlos (Blekinge Institute of Technology, Sweden); Ravichandra Kommalapati (Blekinge Institute of Technology, Sweden); Markus Fiedler (Blekinge Institute of Technology, Sweden)
pp. 688-696

ON-MOVE: Vehicular Networks I

Room: Paris-Rom
Chair: Jihene Rezgui (Université de Sherbrooke, Canada)

Data Gathering in Vehicular Networks: The VESPA Experience
Thierry Delot (University Lille North of France & INRIA Lille Nord Europe, France); Sergio Ilarri (University of Zaragoza, Spain)
pp. 797-804

Position Verification for Vehicular Networks via Analyzing Two-hop Neighbors Information
Mervat Abu-Elkheir (Queen's, Canada); Sherin Abdel Hamid (Queen's, Canada); Hossam S. Hassanein (Queen's University, Canada); Ibrahim M. Elhenawy (Zagazig University, Egypt); Samir Elmougy (Mansoura University, Egypt)
pp. 805-812
Providing Accident Detection in Vehicular Networks Through OBD-II Devices and Android-based Smartphones
Jorge Zaldivar (Universidad Politécnica de Valencia, Spain); Carlos T. Calafate (Universidad Politécnica de Valencia, Spain); Juan-Carlos Cano (Universidad Politécnica de Valencia, Spain); Pietro Manzoni (Universidad Politécnica de Valencia, Spain)
pp. 813-819

15:00 - 15:30
Coffee break

15:30 - 17:00
WLN: Wireless Mesh and Vehicular Networks

Room: Rhein
Chair: Badii Jouaber (Institut TELECOM - Telecom SudParis & cnrs UMR-SAMOVAR, France)

A Study of Topology Formation in 802.11S Multiradio Wireless Mesh Networks
Jean-Charles GREGoire (University of Quebec, INRS, Canada); Claude Roy (Ecole de Technologie Superieure, Canada); Zbigniew Dziong (Ecole de technologie superieure, University of Quebec, Canada)
pp. 890-896

Routing Performance of Wireless Mesh Networks: A Practical Evaluation of BATMAN Advanced
Daniel Seither (Technische Universität Darmstadt, Germany); Andre Koenig (TU Darmstadt, Germany); Matthias Hollick (Technische Universität Darmstadt & Secure Mobile Networking Lab, Center for Advanced Security Research Darmstadt, Germany)
pp. 897-904

Improving the Link Lifetime in VANETs
Marwane Ayaida (University of Reims Champagne Ardenne & CReSTIC, France); Lissan Afilal (CReSTIC, France); Hacene Fouchal (Université de Reims Champagne-Ardenne, France); Haytem El Mehraz (CReSTIC, France)
pp. 905-912

Adaptive Congestion Control of DSRC Vehicle Networks for Collaborative Road Safety Applications
Wenyang Guan (Swansea University, United Kingdom); Jianhua He (Swansea University, United Kingdom); Lin Bai (Beihang University, P.R. China); Zuoyin Tang (Aston University, United Kingdom)
pp. 913-917
Shibboleth Based Authentication, Authorization, Accounting and Auditing in Wireless Mesh Networks
Eryk Schiller (University of Neuchatel, Switzerland); Alexey Monakhov (University of Neuchatel, Switzerland); Peter Kropf (University of Neuchatel, Switzerland)
pp. 918-926

15:30 - 16:45

P2MNET: Ubiquitous and Multimedia Networks

Room: Berlin
Chair: Alan Mc Gibney (Cork Institute of Technology, Ireland)

Effective Web Service Discovery in Mobile Environments
Khalid Elgazzar (Queen's University, Canada); Hossam S. Hassanein (Queen's University, Canada); Patrick Martin (Queen's University, Canada)
pp. 697-705

Evaluation of Lifetime in Wireless Sensor Networks
Lynda Mokdad (Université de Paris 12 & Laboratoire LACL, France)
pp. 706-710

Fault Management for VoIP Applications Over Wireless and Wired NGN Networks: An Operational Prospective
Luca Monacelli (University of Perugia, Italy); Roberto Francescangeli (University of Perugia, Italy)
pp. 711-718

15:30 - 16:30

ON-MOVE: Vehicular Networks II

Room: Paris-Rom
Chair: Robert Brännström (Luleå University of Technology, Sweden)

Evaluating the Robustness of the DGT Approach for Smartphone-based Vehicular Networks
Marco Picone (University of Parma, Italy); Michele Amoretti (Università degli Studi di Parma, Italy); Francesco Zanichelli (University of Parma, Italy)
pp. 820-826

Detecting Faulty and Malicious Vehicles Using Rule-based Communications Data Mining
Jihene Rezgui (Université de Sherbrooke, Canada); Soumaya Cherkaoui (Université de Sherbrooke, Canada)
pp. 827-834
16:30 - 17:00

ON-MOVE: Discussion and Closing Remarks

Room: Paris-Rom
Chair: Soumaya Cherkaoui (Université de Sherbrooke, Canada)