

Communication in Distributed Systems 2011

Tuesday, 2011-03-08

| | Tutorials (in parallel) | Visits (in parallel) |
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| 9:00 | <i>Prof. Dr. Volker Markl</i> Information Management in the Cloud | IFM-GEOMAR: Marine Research in Kiel |
| | <i>Dr. Tanja Zseby</i> Future Internet Technologies | Kiel: Guided City Tour |
| | <i>Dr.-Ing. Oliver Blume</i> Energy Efficient Networks | |

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| 14:00 | Conference opening | |
| 14:30 | Invited talk | <i>Dr. Thilo Weichert, ULD¹ Schleswig-Holstein</i> Privacy Protection needs Computer Science |
| 15:30 | Coffee break | |
| 16:00 | Session Routing | <i>Frey, Hannes; Pillay, Ranjith:</i> A Feasibility Check for Geographical Cluster Based Routing under Inaccurate Node Localization in Wireless Sensor Networks |
| | | <i>Bornhauser, Uli; Martini, Peter; Horneffer, Martin:</i> The Scope of the iBGP Routing Anomaly Problem |
| 17:00 | Prize awards for best PhD and Master theses | |
| 18:20 | Com Software Demo | |
| 19:30 | Open reception | |

1. Independent Centre for Privacy Protection

Communication in Distributed Systems 2011

Wednesday, 2011-03-09 – morning

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| 9:00 | Invited talk | <i>Dr. Matthias Kaiserswerth, IBM Research Zürich</i> A Sense of a Smarter Planet |
| 10:00 | Coffee break | |
| 10:30 | Parallel Session Network Traffic and IT Management | <i>Marold, Alexander; Lieven, Peter; Scheuermann, Björn:</i> Distributed Probabilistic Network Traffic Measurements |
| | | <i>Kolesnikov, Andrey W.; Wolfinger, Bernd E.:</i> Web Workload Generation According to the UniLoG Approach |
| | | <i>Münz, Gerhard; Heckmüller, Stephan; Braun, Lothar; Carle, Georg:</i> Improving Markov-based TCP Traffic Classification |
| | | <i>Textor, Andreas; Stynes, Jeanne; Kroeger, Reinhold:</i> IT Management Using a Heavyweight CIM Ontology |
| 10:30 | Parallel Session Services and Applications | <i>Lipphardt, M.; Glombitza, N.; Neumann, J.; Werner, Ch.; Fischer, St.:</i> A Service-Oriented Operating System and an Application Development Infrastructure for Distributed Embedded Systems |
| | | <i>Machens, Holger; Turau, Volker:</i> Avoiding Publication and Privatization Problems on Software Transactional Memory |
| | | <i>Sudeikat, Jan; Renz, Wolfgang; Vilenica, Ante; Lamersdorf, Winfried:</i> A Reputation-Based Approach to Self-Adaptive Service Selection |
| | | <i>Rybicki, J.; Pesch, B.; Mauve, M.; Scheuermann, B.:</i> Supporting Cooperative Traffic Information Systems through Street-Graph-Based Peer-to-Peer Networks |
| 12:30 | Lunch break and ELG Meeting | |

Wednesday, 2011-03-09 – afternoon

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| 13:30 | Session Industry Papers | <i>Hunte, O.; Kleiner, C.; Koch, U.; Koschel, A.; Koschel, B.; Nitz, St.:</i> Automated Generic Integration of Flight Logbook Data into Aircraft Maintenance Systems |
| | | <i>Goerigk, Wolfgang:</i> Modellgetriebene Entwicklung verteilter Business-Anwendungen |
| | | <i>Schultz, Elferik; Saykowski, Reiner:</i> Alister 2.0 - Speicherprogrammierbare Steuerungen in ESTW für Regionalstrecken der DB Netze AG |
| | | <i>Gruschka, Nils; Lo Iacono, Luigi:</i> Browser as a Service (BaaS): Security and Performance Enhancements for the Rich Web |
| 15:30 | Coffee break | |
| 16:00 | Session Short Papers | <i>Vogel, Michael; Schmerl, Sebastian:</i> Efficient Distributed Intrusion Detection applying Multi Step Signatures |
| | | <i>Wozniak, Sander; Gerlach, Tobias; Schaefer, Guenter:</i> Optimization-based Secure Multi-hop Localization in Wireless Ad Hoc Networks |
| | | <i>Dürr, Michael; Wiesner, Kevin:</i> A Privacy-Preserving Social P2P Infrastructure for People-Centric Sensing |
| | | <i>Radeke, Rico; Türk, Stefan:</i> Node Degree based Improved Hop Count Weighted Centroid Localization Algorithm |
| | | <i>Skubch, Hendrik; Saur, Daniel; Geihs, Kurt:</i> Resolving Conflicts in Highly Reactive Teams |
| 17:45 | SIG KuVS meeting | |
| 19:30 | Conference Dinner in Kieler Yacht Club and Prize Award Com Software | |

Communication in Distributed Systems 2011

Thursday, 2011-03-10 – morning

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|-------|-----------------------------|---|
| 9:00 | Invited talk | <i>Jochen Appel, Deutsche Telekom</i> Changing Telecommunications – Challenges for Networks, Business Processes and IT |
| 10:00 | Coffee break | |
| 10:30 | Session Protocols | <i>Sigg, Stephan; Beigl, Michael:</i> An Adaptive Protocol for Distributed Beamforming |
| | | <i>Basmadjian, Robert; de Meer, Hermann:</i> An Arbitrary 2D Structured Replica Control Protocol |
| | | <i>Gerhards-Padilla, Elmar; Aschenbruck, Nils; Martini, Peter:</i> TOGBAD-LQ - Using Challenge-Response to Detect Fake Link Qualities |
| | | <i>Teske, Holger; Furthmüller, Jochen; Waldhorst, Oliver P.:</i> A Resilient and Energy-saving Incentive System for Resource Sharing in MANETs |
| 12:30 | Closing Session | |

Seven workshops are co-located with the KiVS'11 conference:

- **Thursday** afternoon
 - WMAN
Wireless and Mobile Ad-Hoc Networks
 - WiVS
Flexible Workflows in Distributed Systems
 - NV
Network Virtualization – Challenges and Solutions
- **Friday** morning
 - FUSECO
Future Seamless Communications and Packet Core Evolution
- **Thursday** afternoon and **Friday** morning
 - SAKS
Selbstorganisierende, adaptive, kontextsensitive verteilte Systeme
- **Friday all-day**
 - WASA-NGI
Architectures, Services and Applications for the Next Generation Internet: Global Sensing
 - SSIT
Semantic Services for the Internet of Things

The following pages give a program overview for these workshops.

Workshop WMAN

Wireless and Mobile Ad-Hoc Networks

Thursday, 2011-03-10 – afternoon

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| 14:00 | Workshop Session | Kenote |
| | | <i>Gerhards-Padilla, Elmar; Aschenbruck, Nils; Martini, Peter:</i> Wormhole Detection using Topology Graph based Anomaly Detection (TOGBAD) |
| 15:30 | Coffee break | |
| 16:00 | Workshop Session | <i>Braun, Torsten; Coulson, Geoff; Staub, Thomas:</i> Towards Virtual Mobility Support in a Federated Testbed for Wireless Sensor Networks |
| | | <i>Hail, M.; Pinkowski, J.; Teubler, T.; Danckwardt, M. et al.:</i> RoombaNet-Testbed for Mobile Networks |
| | | <i>Ali, Nasir; de Meer, Hermann; Baselt, Daniel:</i> Analysis of Car-to-Car Beaconing with Network Coding |
| 19:30 | Informal dinner in the Forstbaumschule | |

Workshop WiVS

Flexible Workflows in Verteilten Systemen

Thursday, 2011-03-10 – afternoon

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| 14:00 | Workshop Session | Introduction to the Workshop Subject |
| | | <i>Sonntag, Mirko; Karastoyanova, Dimka:</i> Concurrent Workflow Evolution |
| | | <i>Kühn, Robert; Bandt, Markus; Schick, Sebastian; Meyer, Holger:</i> Beyond Flexibility — Workflows in the Perioperative Sector of the Healthcare Domain |
| 15:30 | Coffee break | |
| 16:00 | Workshop Session | <i>Adwoa Donyina and Reiko Heckel:</i> Flexible Behaviour of Human Actors in Distributed Workflows |
| | | <i>Kai Jander and Winfried Lamersdorf:</i> GPMN-Edit: High-level and Goal-oriented Workflow Modeling |
| | | <i>Sigrid Schefer and Mark Strembeck:</i> Modeling Process-Related Duties with Extended UML Activity and Interaction Diagrams |
| | | Discussion |
| 19:30 | Informal dinner in the Forstbaumschule | |

Workshop NV

Network Virtualization – Challenges and Solutions

Thursday, 2011-03-10 – afternoon

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| 14:00 | Workshop Session | <i>Pedro Andrés Aranda Gutiérrez, Jorge Carapinha:</i> Cloud Networking: Implications of Agile Virtualisation on Provider Relationships |
| | | <i>Maurizio Naldi, Loretta Mastroeni:</i> Virtualization of Spectrum for Mobile Operators: The Pricing Issue |
| | | <i>Sebastian Meier, Marc Barisch, Andreas Kirstädter et al.:</i> Provisioning and Operation of Virtual Networks |
| 15:30 | Coffee break | |
| 16:00 | Workshop Session | <i>Andreas Fischer, Juan Felipe Botero et al.:</i> ALEVIN - A Framework to Develop, Compare, and Analyze Virtual Network Embedding Algorithms |
| | | <i>tbd</i> Panel discussion |
| 19:30 | Informal dinner in the Forstbaumschule | |

Workshop FUSECO

Future Seamless Communications and Packet Core Evolution

Friday, 2011-03-11 – morning

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| 09:00 | Workshop Session | Keynote <i>Thomas Haustein:</i> |
| | | <i>Springer, Dietmar; Gärtner, Stefan; dos Reis, Daniel:</i> Smart Pipe Approach: Defining the Way forward |
| | | <i>Wulf, Jochen:</i> Service Distribution in IP Networks – A Business Model Analysis |
| 10:30 | Coffee break | |
| 11:00 | Workshop Session | Keynote <i>Hans Schotten:</i> |
| | | <i>Uhl, Tadeus:</i> Neues Messsystem zur Beurteilung der Qualität des Dienstes Video Telephony in IP-Umgebung |
| | | <i>Pandit, Krishna; Schoeneich, Hendrik; Dekorsy, Armin:</i> Incentive-based Allocation of Terminals in Heterogeneous Access Networks |
| 12:30 | Workshop closing | |

Workshop SAKS

Selbstorganisierende, adaptive, kontextsensitive verteilte Systeme

Thursday, 2011-03-10 – afternoon

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| 14:00 | Session P2P-Networks and Knowledge Bases | <i>Saller, Karsten; Stingl, Dominik; Schürr, Andy:</i> D4M, a Self-Adapting Decentralized Derived Data Collection and Monitoring Framework |
| | | <i>Obermeier, Philipp; Augustin, Anne; Tolksdorf, Robert:</i> Towards Swarm-based Federated Web Knowledgebases |
| | | <i>Seib, Enrico; Parzyjegla, Helge; Mühl, Gero:</i> Distributed Composite Event Detection in Publish/Subscribe Networks – A Case for Self-Organization |
| 15:30 | Coffee break | |
| 16:00 | Session SO-Engineering | <i>Zapf, Michael:</i> Paradigm-Independent Engineering of Complex Self-Organizing Systems |
| | | <i>Vilenica, Ante; Sudeikat, Jan:</i> Methods and Tools for Engineering Self-Organizing Software Systems |
| | | <i>Evers, C.; Hoffmann, A.; Saur, D.; Geihs, K.; Leimeister, J.M.:</i> Ableitung von Anforderungen zum Adaptionsverhalten in ubiquitären adaptiven Anwendungen |
| 19:30 | Informal dinner in the Forstbaumschule | |

Friday, 2011-03-11 – morning

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|-------|---|---|
| 09:00 | Session Meta-Information, Context Awareness, and Analysis | <i>Bihler, Pascal; Cremers, Armin B.:</i> The Semantic Shadow: Structuring the Web for Adaptations |
| | | <i>Schulze, Michael; Förster, Marcus:</i> AFFIX – Ein ressourcenbewusstes Framework für Kontextinformationen in eingebetteten verteilten Systemen |
| | | <i>Meyer, Fabian:</i> Eine Kombination von Modellen zur Systemanalyse im Selbstmanagementkontext |
| 10:30 | Coffee break | |
| 11:00 | Session Applications | <i>Jung, Heiko; Kappler, Jochen:</i> Implicit Agent Interaction within an Approach for a Robust Transport Control in Dynamic and Intermodal Logistics Networks |
| | | <i>Miyauchi, Y; Matsumoto, N.; Yoshida, N.; Shimokawa, T.:</i> Preliminary Study on World-Wide Implementation of Adaptive Content Distribution Network |
| | | <i>Fuchs, Gerhard; German, Reinhard:</i> Beispiele für Dynamische Anpassung beim ACOOWEE |
| 12:30 | Workshop closing | |

Workshops WASA-NGI and SSIT

Architectures, Services and Applications for the Next Generation Internet: Global Sensing and Semantic Services for the Internet of Things

Friday, 2011-03-11 – morning

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| 09:00 | Workshop WASA-NGI | Keynote |
| | | <i>Schildt, S.; Morgenroth, J.; Pöttner, W.-B.; Wolf, L.:</i> IBR-DTN: A Lightweight, Modular and Highly Portable Bundle Protocol Implementation |
| | | <i>Gerald G. Koch, Andreas Benzing, and Christoph P. Mayer:</i> An Approach for Urban Sensing with Quality-Aware Situation Detection and Efficient Communication |
| 10:30 | Coffee break | |
| 11:00 | Workshop SSIT | Keynote |
| | | <i>Bimschas, Daniel et al.:</i> Semantic-Service Provisioning for the Internet of Things |
| | | <i>Teubler, Torsten; Walther, Ulrich; Hellbrück, Horst:</i> EZgate – A flexible Gateway for the Internet of Things |
| 12:30 | Lunch break | |

Friday, 2011-03-11 – afternoon

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| 13:30 | Workshop WASA-NGI | Keynote |
| | | <i>Schreckling, Daniel; Posegga, Joachim:</i> Adaptive Security Architectures for Global Sensing Applications |
| | | <i>Fischer, Daniel; Herrmann, Klaus:</i> Resource Management in Public Sensing - Challenges and Requirements |
| 15:00 | Workshops WASA-NGI and SSIT | Joint Wrap-up Session |
| 15:30 | Workshops closing | |