

Annual Workshop of GRK1362

Cooperative, Adaptive and Responsive Monitoring in Mixed Mode Environments



TECHNISCHE
UNIVERSITÄT
DARMSTADT



9 February 2010
S2/02 (Piloty-Building), Room A102

Program

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- 8:15 – 8:30 Welcome
- 8:30 – 10:30 **Session 1: Robotics and Distributed Control**
Chair: Johannes Meyer
- Kati Radkhah: *Biologically inspired design and actuation for energy-efficient legged locomotion*
 - Armin Strobel: *“Distributed and Forward-looking Control of an UAV Swarm for Measuring Scalar Fields in Lower Airspace”*
 - Dominik Haumann: *“State Estimation in Distributed Systems”*
 - Kim Listmann: *“Output Synchronization of Dynamical Systems”*
- 10:30 – 11:00 Coffee Break
- 11:00 – 12:30 **Session 2: Information Management in Sensor Networks**
Chair: Arthur Herzog
- Matthias Kropff: *“Multi-Modal Sensor Monitoring for Context-Aware Assistance”*
 - Farid Zaid: *“Assisting Emergency Response using Sensor-based Orientation-aware Interaction”*
 - Vinay Sachidananda: *“Quality of Information Awareness in Wireless Sensor Networks Design”*
- 12:30 – 13:30 Lunch Break (Snacks will be served in B002.)
- 13:30 – 15:00 **Session 3: Middleware**
Chair: Karen Petersen
- Daniel Jacobi: *“Scopes Framework”*
 - Arthur Herzog: *“An Agent-based Middleware Approach for Mixed Mode Environments”*
 - Pablo Guerrero: *“Towards Workflow Execution in WSANs”*
- 15:00 – 15:30 Coffee Break
- 15:30 – 17:30 **Session 4: Computer Vision and Human-Machine Interfaces**
Chair: Christian Reinl
- Paul Schnitzspan: *“Conditional Random Fields for Detection of Visual Object Classes”*
 - Micha Andriluka: *“People Detection and Pose Estimation in Challenging Scenes”*
 - Johannes Meyer: *“Strategies for Onboard Terrain and Obstacle Mapping by UAV(s)”*
 - Karen Petersen: *“Support of an Autonomous Team of Robots by a Human Operator”*
- 17:30 – 18:00 Discussion and Conclusion
- 19:00 Social Event (Bowling)
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