

WISES'05 - Workshop Program

9:00 Registration in room SBS 95 - 0.02

9:45 **Opening Session** Room SBS 95 - 0.16
Session Chair: V. Turau

Greeting by U. Killat, Vice President Hamburg University of Technology

10:00 **Invited Talk** Room SBS 95 - 0.16

Challenges for Dependable Embedded Systems and Services
N. Suri - Darmstadt University of Technology, Germany

10:45 Coffee Break

11:00 **Session 1: Intelligent Engineering** Room SBS 95 - 0.16
Session Chair: R. Kröger

Using RTAI/LXRT for Partitioning in a Prototype Implementation of the DECOS Architecture

B. Huber, P. Peti, R. Obermaisser, and C. El Salloum
Vienna University of Technology, Austria

A Mobile Agent-based System for Dynamic Task Allocation in Clusters of Embedded Smart Cameras

M. Bramberger¹, B. Rinner¹, and H. Schwabach²

¹Graz University of Technology, Austria

²ARC Seibersdorf Research, Austria

Large Scale Testing of Pervasive Computing Systems Using Multi-Agent Simulation

N. C. Narendra

IBM Software Labs, India

Automated High-Accuracy Hybrid Measurement for Distributed Embedded Systems

M. Thoss

University of Applied Sciences Wiesbaden, Germany

12:30 Lunch

13:30 **Session 2: Sensor Networks** Room SBS 95 - 0.01
Session Chair: B. Huber

BGR: Blind Geographic Routing for Sensor Networks

M. Witt, and V. Turau

Hamburg University of Technology, Germany

Feasibility Study of a Novel Bio-inspired Location Sensor Concept for Indoor Location Based Services in Ambient Intelligence Applications

P. Tawdross, and A. König

University of Kaiserslautern, Germany

Adaptive Low-Power Analog/Digital Converters for Wireless Sensor Networks

D. Schröder

Hamburg University of Technology, Germany

Synchronization in Wireless Sensor Networks Using Bluetooth

R. Casas¹, H. J. Gracia¹, A. Marco², and J. L. Falco²

¹Technical University of Catalonia, Barcelona, Spain

²University of Zaragoza, Zaragoza, Spain

Topology Control for Fault-Tolerant Communication in Highly Dynamic Wireless Networks

B. Thallner, and H. Moser

Vienna University of Technology, Austria

13:30	<p>Session 3: Real-time Systems Session Chair: R. Seepold</p> <p>An Application of a Formal Approach for Distribution of Real-time Control <i>T. Sivanthi¹, U. Killat¹, and K. Angrishi²</i> ¹Hamburg University of Technology, Germany ²Luftfahrtgeräte Gauting GmbH, Hamburg, Germany</p> <p>Soft Real-Time Acquisition in Windows XP <i>J. Cinkelj, M. Mihelj, and M. Munih</i> University of Ljubljana, Ljubljana, Slovenia</p> <p>Periodic Real-Time Scheduling for FPGA Computers <i>K. Danne and M. Platzner</i> University of Paderborn, Germany</p> <p>Data processing system for denoising of signals in real-time using the wavelet transform <i>H. O. Mota¹, and F. H. Vasconcelos²</i> ¹Centro Universitário de Belo Horizonte, Belo Horizonte, Brazil ²Universidade Federal de Minas Gerais, Belo Horizonte, Brazil</p> <p>Evaluation of Message Delay Correlation in Distributed Systems <i>D. Albeseder</i> Vienna University of Technology, Austria</p>	Room SBS 95 - 0.16
15:30	Coffee Break	
15:50	<p>Session 4: Configuration & Monitoring Session Chair: D. Schröder</p>	Room SBS 95 - 0.16
	<p>Application specific vs. standard Web service interfaces for the vertical integration of fieldbus systems <i>M. Venzke, C. Weyer, and V. Turau</i> Hamburg University of Technology, Germany</p> <p>The Diagnostic Architecture of the PEGASUS Project Car <i>P. Peti, R. Obermaisser, and H. Paulitsch</i> Vienna University of Technology, Austria</p> <p>Comprehensible Hierarchical Intelligent (CHI) Framework for Monitoring and Preventive Maintenance of Aircraft Systems <i>P. Owotoki, F. Mayer-Lindenberg</i> Hamburg University of Technology, Germany</p> <p>Integration of Smart Cards into Automation Networks <i>J. A. Vigo Segura, J. J. Sánchez Sánchez, N. Martínez Madrid, and R. Seepold</i> Universidad Carlos III de Madrid, Spain</p> <p>Improving Fault-Tolerance in Intelligent Video Surveillance by Monitoring, Diagnosis and Dynamic Reconfiguration <i>A. Doblender¹, A. Maier¹, B. Rinner¹, and H. Schwabach²</i> ¹Graz University of Technology, Austria ²ARC Seibersdorf Research, Austria</p>	
17:50	Closing Ceremony in room SBS95 0.16	
18:30	<p>Dinner</p> <p>The dinner takes place at Bixio Ristorante, a 15 minutes walk from the workshop location and the railway station Hamburg-Harburg.</p>	