

**7th ARCS Workshop “Dependability and Fault Tolerance”
Como, Tuesday, February 22, 2011**

Programme

9.00 – 9.10 Welcome

9.10 – 10.00 Invited Talk

T. Ungerer (Augsburg)

Dependability and Fault Tolerance for Future Many-Core Processors

10.00 – 10.30 Coffee Break

10.30 – 11.30 Hardware Fault Tolerance

B. Fechner (Hagen)

Reliability Bottlenecks in Integrated Parallel Fault-Tolerant Systems

H. Klein(Augsburg), J. Keller (Hagen)

Simulating Fault Injection into Disk Arrays

11.30 – 12.30 Fault-Tolerant Organic Computing

K.-E. Grosspietsch (Sankt Augustin), T.A. Silaeva (Moscow)

A Concept for the Dependable Operation of Autonomous Robots by Means of Adaptive Fuzzy Rules

R. Maas, E. Maehle (Lübeck)

Fault Tolerant and Adaptive Planning for Mobile Robots Based on Health Signals

12.30 – 14.00 Lunch Break

14.00 – 15.30 Dependable Parallel and Distributed Systems

M. Soubhi, K. Echtle (Essen)

Simulation of Clock Synchronization in Multi-Cluster FlexRay Systems

R. Messner, J. Keller (Hagen)

A Parallel Fault-Tolerant Routing Algorithm for Real-Time Media Transmission

Á. Salánki, I. Kocsis, A. Pataricza (Budapest)

Qualitative Characterization of Quality of Service Interference between Virtual Machines

15.30 – 16.00 Coffee Break

16.00 – 17.00 Dependable Software

F. Belli, N. Güler, M. Linschulte (Paderborn)

Layer-Centric Testing

M. Meitner, F. Saglietti (Erlangen)

Software Reliability Assessment Based on Operational Representativeness and Interaction Coverage

17.00 – 17.30 Meeting of the Technical Committee “Dependability and Fault Tolerance”