Advance Program

Monday, April 25

8:00 – 9:00  Registration

9:00 – 9:15  Welcome Address
Miroslaw Malek and Neeraj Suri

9:15 – 10:15  Session 1: Keynote Address
Session Chair: Neeraj Suri

TTA-supported Service Availability
Hermann Kopetz, Vienna University of Technology

10:15 – 10:45  Break

10:45 – 12:15  Session 2: Data and Computation Availability
Session Chair: Chrisof Fetzer

The Value of Conformance Testing and a Look at the SAF Test Project
Bob Spencer, Intel Corporation

Building Highly Available Application using SA Forum Cluster: A case study of 3G GGSN Application
Ajay Kamalvanshi, Timo Jokiaho, Nokia

Using Logical Data Protection and Recovery to Improve Data Availability
Wei Hu, Oracle Corporation

12:15 – 13:30  Lunch

13:30 – 15:00  Session 3: Specifying, Modeling and Verifying Service Availability
Session Chair: Aad van Moorsel

Contract-based Web Service Composition Framework with Correctness Guarantees
Nikola Milanovic, Humboldt University Berlin

Practical Approach to Specification and Conformance Testing of Distributed Network Applications
Victor Kuliamin, Alexander Petrenko, Nickolay Pakoulin, Institute for System Programming, Russian Academy of Sciences

Model-based Optimization of Enterprise Application and Service Deployment
András Balogh, Dániel Varró, András Pataricza, Budapest University of Technology and Economics

15:00 – 15:30  Break

15:30 – 17:00  Session 4: Panel Discussion “Are Service-oriented Architectures the Panacea for a High-Availability Challenge?”
Panel Moderator: Miroslaw Malek
Roger Kilian-Kehr (SAP), Brendan Murphy (Microsoft Research), Aad van Moorsel (University of Newcastle) Guido Laures (Hasso Plattner Institute)

19:30  Boat Cruise and Dinner
Tuesday, April 26

8:30 – 10:30  **Session 5 (Invited papers): Modeling and Composition**  
Session Chair: Guenter Heiner

  - Modeling User-Perceived Service Availability  
    Dazhi Wang, Kishor Trivedi, *Duke University*
  - Dependable Distributed Computing using Free Databases  
    Christof Fetzer, Trevor Jum, *Technical University of Dresden*
  - A Compositional Framework for Real-Time Embedded Systems  
    Insup Lee, Insik Shin, *University of Pennsylvania*
  - Composability of Ad Hoc Mobile Middleware and Trust Management for Critical Infrastructures  
    Dave E. Bakken, Ovidiu-Valentin Drugan, Ioanna Dionysiou, Thomas Plagemann, Deborah Frincke, Carl Hauser, *University of Oslo*

10:30 – 11:00 Break

11:00 – 11:45 **Session 6: Invited talk**  
Session Chair: Manfred Reitenspiess  
The SAF Availability Management Framework: Towards Standardized HA Middleware  
David Penkler, *HP*

11:45 – 13:15 **Session 7: SA Forum Special Session**  
Session Chair: Francis Tam

  - Transparent Checkpointing on Linux in Comparison with App-oriented/app-directed ckpt (as in AIS)  
    Jan-Thomas Czornack, *TU Munich*
  - HPI as an Interface to ATCA and other Blade-based Servers  
    Adam Schmidt, *Motorola*
  - Service Availability: Its not just Technology!!  
    Jon Kenton, *Motorola*

13:15 – 14:30 Lunch

14:30 – 16:00 **Session 8: Verification and Availability Assessment**  
Session Chair: Kishor Trivedi

  - Proof-Based Systems Engineering Using Virtual System Models  
    Gerard Le Lann, *INRIA Rocquencourt*
    Martin Biely, Ulrich Schmid, *Vienna University of Technology*
  - Evaluation of the Impact of Congestion on Service Availability in GPRS infrastructures  
    Paolo Lollini, Andrea Bonadavalli, *University of Florence*
    Felicita Di Giandomenico, *ISTI - CNR*
  - Characterizing Session Initiation Protocol (SIP) Network Performance and Reliability  
    Vijay Gurbani, Lalita Jagadeesan, Veena Mendiratta, *Bell Labs, Lucent Technologies*