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# Service Availability

Second International Service Availability Symposium, ISAS 2005  
Berlin, Germany, April 25 – 26, 2005  
Revised Selected Papers



Springer

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## General and Program Chairs' Message

The 2nd International Service Availability Symposium (ISAS 2005) provided a unique forum for academia and industry researchers who focus not only on developing next generation solutions but also on standards for today's market. Given the pervasive interweaving of computing devices, increasingly it is "services" rather than "systems" that warrant our attention. As services emerge as the primary vehicle for information acquisition, processing and delivery, the demands for dependability become of primary concern. Needless to add, the expectations from users' with respect to trust and reliance of such systems will only continue to grow.

As computers already pervade almost all walks of our lives, significantly increased interest in dependable computing should not be a surprise as the industry leaders and main computer companies are searching for innovative ways of enhancing the dependability of systems that are increasingly more complex and networked. With the paradigm shift where "everything" may become a service, it is not an option but an imperative to address the questions of service availability. From humble beginnings of dealing with types and formats, later with tasks and processes, then with objects and components, we have arrived to service and peer-to-peer computing. Over 8.5 billion processors are produced each year and 98.5% end up in geographically distributed and interconnected embedded systems. The challenge is to design services and systems that are highly available, reliable and secure. As the number of  $7 \times 24$  applications continuously increases this is an ambitious challenge that will have to be met. Service availability cannot be compromised. It will have to be delivered as the economic and social impacts of unreliable, incorrect services might range from minor inconveniences to losses of human lives and unpredictable costs.

This year's ISAS represented an excellent mix of academic and industrial contributions as well as participation.

The eight sessions featured truly distinguished academics and industrial leaders as well as some new researchers in the field. We had an outstanding Keynote Speaker Prof. Hermann Kopetz from TU Vienna who is a pioneer in the field of dependable real-time computing, actively contributing to the field for almost 30 years. A distinguished panel featuring representatives from academia and industry, two invited sessions, and regular papers that were subject to a rigorous review process constituted the overall ISAS program. Each paper was reviewed by at least three Program Committee members. We would wholeheartedly like to thank our PC members for their guidance and diligent reviewing. Our thanks go to Prof. Edgar Nett, Nikola Milanovic and Christine Henze for editing the proceedings. Nikola and Christine also helped together with Sabine Becker and Steffen Tschirpke of Humboldt University Berlin, Susan Morgner and Dr. Christine Titel from Congressa GmbH the organization and we do appreciate it very

much! Last but not least we would like to thank Manfred Reitenspieß who has been the guiding force behind ISAS and the Service Availability Forum.

I hope that the attendees enjoyed the final program, enjoyed the presentations, got involved in the discussions, struck up new friendships, and got inspiration for contributions to the next year's symposium which will be hosted by Kimmo Raatikainen, University of Helsinki and Francis Tam of Nokia in Helsinki during May 15–16, 2006.

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# Table of Contents

TTA Supported Service Availability <i>Hermann Kopetz</i> .....	1
The Value of Conformance Testing and a Look at the SAF Test Project <i>Bob Spencer</i> .....	15
Building Highly Available Application Using SA Forum Cluster: A Case Study of GGSN Application <i>Ajay Kamalvanshi, Timo Jokiaho</i> .....	25
Using Logical Data Protection and Recovery to Improve Data Availability <i>Wei Hu</i> .....	39
Contract-Based Web Service Composition Framework with Correctness Guarantees <i>Nikola Milanovic</i> .....	52
Practical Approach to Specification and Conformance Testing of Distributed Network Applications <i>Victor V. Kuliamin, Nickolay V. Pakoulin,</i> <i>Alexander K. Petrenko</i> .....	68
Model-Based Optimization of Enterprise Application and Service Deployment <i>András Balogh, Dániel Varró, András Pataricza</i> .....	84
On Best-Effort and Dependability, Service-Orientation and Panacea <i>Aad van Moorsel</i> .....	99
Are Service-Oriented Architectures the Panacea for a High-Availability Challenge? <i>Guido Laures</i> .....	102
Modeling User-Perceived Service Availability <i>Dazhi Wang, Kishor S. Trivedi</i> .....	107
Dependable Distributed Computing Using Free Databases <i>Christof Fetzer, Trevor Jim</i> .....	123

A Compositional Framework for Real-Time Embedded Systems <i>Insik Shin, Insup Lee</i> .....	137
On the Importance of Composability of Ad Hoc Mobile Middleware and Trust Management <i>Ovidiu V. Dragan, Ioanna Dionysiou, David E. Bakken, Thomas P. Plagemann, Carl H. Hauser, Deborah A. Frincke</i> .....	149
Proof-Based System Engineering Using a Virtual System Model <i>Martin Biely, Gérard Le Lann, Ulrich Schmid</i> .....	164
Evaluation of the Impact of Congestion on Service Availability in GPRS Infrastructures <i>Paolo Lollini, Andrea Bondavalli, Felicita Di Giandomenico</i> .....	180
Characterizing Session Initiation Protocol (SIP) Network Performance and Reliability <i>Vijay K. Gurbani, Lalita J. Jagadeesan, Veena B. Mendiratta</i> .....	196
<b>Author Index</b> .....	213