Fast Abstracts

Fast Abstracts at DSN are short presentations, either on new ideas or work in progress, or opinion pieces that can address any issue relevant to dependable systems and networks. Because they are brief and have a later deadline, Fast Abstracts enable their authors to: summarise work that is not yet complete, put forward novel or challenging ideas, state positions on controversial issues, suggest new approaches to the solution of open problems. Thus, they provide an excellent opportunity to introduce new work, or present radical opinions, and receive early feedback from the community. Contributions are particularly solicited from industrial practitioners and academics that may not have been able to prepare full papers due to time and work pressures, but nevertheless seek an opportunity to engage with the DSN community.

Fast Abstract Chair

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Michiaki Tatsubori, IBM Research, Japan
Wednesday, June 25th 2008, 11:00-12:30

Random-walk Gossip-based Manycast with Partition Detection, Mikael Asplund, Simin Nadji-Tehrani

Architecting Fault Tolerance using Abstractions, Patrick Brito, Rogerio de Lemos, Cecilia Rubira


Black Hole Attack Injection in Ad hoc Networks, Jesus Friginal, Juan-Carlos Ruiz, David de-Andres, Pedro Gil

AA – A Software Architecture Aware Environment for Dependable Systems, Cristina Gacek

Closing the Dependability Gap: Converging Software Engineering with Middleware, Karl M. Goeschka, Lorenz Froihofer

From Dependability to Resilience, Jean-Claude Laprie

On The Structure of Unstructured Overlay Networks, João Leitão, José Pereira, Luís Rodrigues

Towards Decentralized Management of Graceful Degradation in Distributed Embedded Systems, Osamah Rawashdeh

Multidimensional Analysis of System Logs in Large-scale Cluster Systems, Wei Zhou, Jianfeng Zhan, Dan Meng

Wednesday, June 25th 2008, 14:00-15:30

STAMP: Toward Reclaming Email Address Privacy, Kurt Ackermann, Camille Gaspard, Ramana Kompella, Cristina Nita-Rotaru

Balancing of Dependability and Security in Online Auctions, Lorenz Froihofer, Karl M. Goeschka


Hybrid Protection Strategy for Improving Reliability of Packet-Switched Networks on Chip, Gao Jianliang, Han Vinhe, Yan Fengxia, Li Xiaowei

Robustness Measurement in OS Forecast and Selection, Xiaoen Ju, Hengming Zou

Increasing SoC Dependability via Know Good Tile NoC Testing, Hans Kerkhoff, Oscar Kuiken, Xiao Zhang
Workload Representation in the Modeling of Border Inspection Points, Mayra Sacanamboy, Bojan Cukic

On Identifying Execution Hotspots in Kernel-mode Device Drivers, Constantin Sarbu, Andreas Johansson, Neeraj Suri

A Test Model for Hardware and Software Development, József Sziray

Thursday, June 26th 2008, 14:00-15:30

Design Analysis of Fault-Tolerant and Real-Time Robotic Systems, Aigul Aktymbayeva, Gulnar Balakayeva

Using Automated Reverse Engineering for the Safe Execution of Untrusted Device Drivers, Vitaly Chipounov, George Candea, Willy Zwaenepoel

Local Detection of Faulty Measured Value in Sensor Networks, Gao Jianliang, Yan Fengxia, Han Yinhe, Li Xiaowei

Detecting Hidden Shared Dependencies via Covert Channels, Kaustubh Joshi

Yield Enhancement Techniques for Content-Addressable Memories, Shyue-Kung Lu, Guan-Quan Lin, Sy-Yen Kuo

On improving the Reliability of Cluster based Voice over IP Services, Ayari Narjess, Lefevre Laurent, Barbaron Denis, Primet Pascale

Self Tuning With Self Confidence, Miguel Matos, Jose Pereira, Rui Oliveira

Software Fault Tolerance in Marine Systems, Torbjørn Skramstad, Heidi Brovold

Component-Dependency based Micro-Rejuvenation Scheduling, Vinaiitheerthan Sundaram, Matthew Tan Creti, Rajesh K. Panta, Saurabh Bagchi

Performance-Driven Crosstalk Tolerance Based on Bus-grouping Asynchronous Transmission, Guihai Yan, Yinhe Han, Xiaowei Li