Advance Program

FOURTH SYMPOSIUM ON RELIABILITY IN DISTRIBUTED SOFTWARE AND DATABASES

Sponsored by: IEEE Computer Society in cooperation with ACM. October 15-17, 1984, Silver Spring, Maryland

Sheraton Inn Northwest Washington

Monday, October 15, 1984
8:00 am - 9:00 am Tutorial (late) Registration
9:00 am - 5:00 pm Tutorial: Reliable, Distributed Database Systems
Bharat Bhargava, Purdue University
8:00 pm - 10:00 pm Registration

Tuesday, October 16, 1984
8:00 am - 9:00 am Registration
9:00 am - 9:15 am Introduction and Opening Remarks
9:15 am - 10:00 am KEYNOTE SPEECH: Prof. Hans-Jochen Schneider, Technical University of Berlin

0:00 - 10:30 am Coffee Break
10:30 am - 12:00 pm NETWORK PARTITION HANDLING
- Communication Architecture for Fast Reliable Broadcasts; G. Buzaglo and R. Drummond, Cornell University
- Circus: A Replicated Procedure Call Facility; E. Cooper, University of California, Berkeley
- Stylized Interprocess Communication — A Kernel Primitive for Reliable Distributed Computing; G. Leiner, Columbia University
2:00 pm - 4:30 pm LUNCH
3:30 pm - 5:30 pm PERFORMANCE OF FAULT-TOLERANT SYSTEMS
- A Technique for Estimating Performance of Fault-Tolerant Programs; R. Schlichting, University of Arizona
- Performance Modeling of Database Recovery Protocols; N. Griffith and John Miller, Georgia Institute of Technology
- Performance Evaluation of Distributed Concurrency Control Mechanisms; R. Ford, R. Schultz and M. Jipping, University of Iowa
- Tolerating System Overloads: A Case Study; S. Rotenstreich, Soft Hat, Inc.

6:00 pm - 8:00 pm RECEPTION

Wednesday, October 17, 1984
8:30 am - 10:00 am FAULT-TOLERANCE OF DISTRIBUTED SYSTEMS
- Two Simple and Efficient Probabilistic Byzantine Agreement Algorithms; B. Coan, M.I.T.
- Randomized Byzantine Agreement; K. Perry, Cornell University
- The Reliability of (k,n)-Resilient Distributed Systems; Y. T. Tai, Harvard University
10:00 am - 10:30 am Coffee Break
10:30 am - 12:00 pm OBJECT MANAGEMENT IN DISTRIBUTED OPERATING SYSTEMS
- Implementing Fault-Tolerant Distributed Objects; K. Birman, T. Joseph, T. Rauhuel and A. El-Albadi, Cornell University
- Ordering Actions for Visibility; M. McKendry, Georgia Institute of Technology
- Cluster-Based Naming for Reliable Distributed Systems; F. C. M. Lau, University of Waterloo
12:00 pm - 1:00 pm LUNCH
1:00 pm - 2:30 pm CONCURRENCY CONTROL IN DISTRIBUTED SYSTEMS
- Multilevel Concurrency Control of a Database System; T. Minoura, Oregon State University
- A Distributed Algorithm for Deadlock Detection and Resolution; K. Sugiura, T. Kajuto, N. Yoshida and M. Ogata, Hiroshima University
- An Algebraic System for Deadlock Detection and its Application; R. T. Yeh, B. Zhou, University of Maryland and P. Ng, University of Missouri
2:30 pm - 3:00 pm Coffee Break
3:00 pm - 4:30 pm RELIABLE TRANSACTION MANAGEMENT (Parallel Session)
- A Dead-End-False Recovery Algorithm; D. Bianco, A. Ciuffoletti, L. Simonini, University of Pisa
3:00 pm - 4:30 pm DESIGN METHODOLOGY FOR RELIABLE SOFTWARE (Parallel Session)
- Structuring Processes for a Cooperative Approach to Fault-Tolerant Distributed Software; F. Baier, L. Ricci, A. Tomasi and M. Vanneschi, University of Pisa
- A Framework for Research in Performance — Availability of Automated Information Systems; F. Schreiber, University of Parma

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