Sixth Symposium on Reliability in Distributed Software and Database Systems

SPONSORS
Computer Society of the IEEE
IEEE TC on Distributed Processing
IEEE TC on Fault-Tolerant Computing

IN COOPERATION WITH
ACM
NASA-Langley Research Center
College of William & Mary Computer Science Department
William and Mary, Virginia
IEEE — Tidewater section

THEME: The symposium addresses all aspects of reliable software with special emphasis on database systems. The program presents a new tutorial on modelling software reliability, a most critical aspect in the software development process. The papers cover reliability in the critical areas of communications, environments, structures and replicated data, synchronization and algorithms. The keynote and invited speakers provide new results and status in these important areas. The conference is designed for effective communication between participants and attendees to penetrate and exchange the latest problems and results.

PROGRAM

■ Tuesday, March 17, 1987 9:00-17:00
Tutorial — Modelling Software Reliability. Amrit L. Goel, Syracuse U.

■ Wednesday, March 18, 1987
8:00-9:00: Registration
9:00-9:30: Opening Ceremony
9:30-10:30: Keynote Address — Distributed Operating Systems: Andrew S. Tanenbaum, Vrije U., Amsterdam, NL
10:30-11:00: Break
11:00-12:30: Session I — Communication and Control: S.K. Shrivastava, Newcastle-Upon-Tyne, UK
• A Reliable and Secure UNIX Connection Service. D. Draheim, B. Miller, S. Snyder, U. Wisconsin
• Preserving Context Information on an IPC Abstraction. L. Peterson, U. Arizona
• Adaptable, Reliable Software for Distributed and Parallel Real-time Systems. K. Schwan, T. Bihani, B. Blake, Ohio State U.
12:30-14:00: Lunch
• Reliability in Distributed Programming Environments. G. Kaiser, Columbia U.; Kaplin, Illinois
• Bugnet-A Real-time Distributed Debugging System. S. Jones, R. Barkan, L. Witte, SUNY- Stonybrook
15:30-16:00: Break
16:00-17:30: Session III — Replicated Data: Carla Ellis, Duke U.
• On improving the Availability of Replicated Files. D. Long, J. Paris, U. Calif — San Diego
• Access Control in a Heterogeneous Distributed Database Management System. C. Wang, D. Spooner, Rensselaer Tech
• Independent Recovery in Distributed Systems: G. Chang, M. Gouda, U. Texas-Austin
18:30-19:30: Reception

■ Thursday, March 19, 1987
8:30-10:00: Session IV — Object Based Systems: Rob Cook, U. Virginia
• Exploiting Type Inheritance Facilities to Implement Recoverability in Object Based Systems: G. Dixon, S. Shrivastava, Newcastle-Upon-Tyne, UK
• Fault-Tolerant Computing in an Object Based Distributed Operating System. M. Ahamad, P. Dasgupta, R. Leblanc, C. Wilkes, Georgia Tech
10:00-10:30: Break
10:30-12:00: Session V — Concurrency & Synchronization: K. Birman, Cornell U.
• Synchronization of Redundant Computation in a Distributed System: N. Natarajan, T. Jia, Penn. State U.
• Fault Masking and Sequence Agreement by a Voting Protocol with Low Message Number. K. Echle, U. Karlsruhe, FGR
• Performance Characterization of Quorum-Consensus Algorithms for Replicated Data: M. Ahamad, M. Ammar, Georgia Tech
12:00-14:00: Lunch — invited Address — Non-determinism as Model for Faulty Systems: K. Mani Chandy, U. Texas-Austin
14:00-14:15: Break
14:15-15:45: Session VI — Algorithms: Ray Strong, IBM, Almaden Labs
• A Gracefully Degradable Algorithm for Byzantine Agreement: F. DiGiancomo, M. Gouda, F. Grandoni, E. Simoncini, IE-CNR, Pisa, Italy
• Early Stoping Algorithm for Distributed Agreement Under Fail-stop, Omisson & Timing Faults: P. Ezhilchelvan, Newcastle-Upon-Tyne, UK
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REGISTRATION FORM
Symposium on Reliability in Distributed Software and Database Systems

Complete and return this form with check made payable to:
Distributed Software Symposium
c/o Department of Computer Science
College of William and Mary
Williamsburg, VA 23186

Advance Registration
(prior to 2/27/87)
Conference $110 Member Non-member $140 Student/retired $15
Tutorial $110 Member Non-member $140 Student/retired $110

Late Registration
(after 2/27/87)
Conference $150
Tutorial $150
Conference amount $
Tutorial amount $
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To guarantee your reservation, either a check or appropriate credit card information (VISA, MasterCard, Choice, must be included with the registration form.

NOTES: Registration fee includes admission to the technical sessions, one copy of the symposium proceedings (except students), break refreshments, lunch both days, and reception. Refunds (less $15 handling fee) will be made if request is received in writing by March 6, 1987. Tutorial registration includes tutorial notes, break refreshments, and lunch.

HOTEL RESERVATION FORM
Symposium on Reliability in Distributed Software and Database Systems

Hotel Address: Williamsburg Hilton & National Conference Center
50 Kingsmill Road
Williamsburg, VA 23185
(804) 220-2500

The hotel is located 3 miles east of Williamsburg on US route 60. Williamsburg is accessible from Newport News (20 mi), Richmond (70 mi), or Norfolk (45 mi) airports via I-64.

Rates
Single or with spouse $65 + 6% tax
Double (two attendees) $90 + 6% tax
All major credit cards accepted.

by February 14, 1987. To guarantee reservations, we must receive one night’s deposit including tax.

Reservations made after February 14, 1987 are subject to space available. Check-in time is 3:00 pm. Check-out time is 12:00 noon. Cancellations must be received by the hotel at least 24 hours prior to date of arrival.

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