Advance Program
Fifth Symposium on Reliability in Distributed Software and Database Systems

January 13-15, 1986
Los Angeles Marriott Hotel, California
Sponsor—IEEE Computer Society in Cooperation with the ACM and IFIP Working Group 10.4

MONDAY, 13 JANUARY: Tutorial
J.K. Gallant, G. Lidor, and E.N. Shipley:
The impact of DBMS on distributed systems and AI applications

TUESDAY, 14 JANUARY
Session I:
"Accuracy of Time Measurement in Distributed Real-Time Systems" H. Kopetz
"Time Driven Orphan Elimination" M.S. McKenzie, M. Herlihy
"Fault Tolerant Locking (FTL) for Tightly Coupled Systems" J.M. An, W.W. Chu

Session II:
"Failure Handling in Distributed Programming Languages" R.D. Schlichting, T.D. Purdin
"A Low Cost Checking Matrix for Diagnosis of Large Replicated and Remotely Located Files" W.K. Fuchs, K.L. Wu, J.A. Abraham
"A Saturation Network to Tolerate Faults and Intrusions" Y. Deswarte, J. Fabre, J. Laprie, D. Powell
Panel:
"What is the Future for the Tolerance of Design Faults?" A. Avizienis

WEDNESDAY, 15 JANUARY
Session III:
"Robust Application Design in Highly Available Distributed Databases" S.K. Sarin
"Database Processing with Triple Modular Redundancy" F. Pittelli, H. Garcia-Molina
"Distributed Decentralized Commit Protocols" T.Y. Lakshman, A.K. Agarwala

Special Invited Lecture:
"Reliability and Security Issues in Distributed Systems" B. Randell

Session IVa:
"How Big Can an Atomic Action Be?" D. Taylor
"A Structured Decision Mechanism for Diverse Software" T. Anderson
"An Approach to Fault Tolerance in Massive Parallelism Systems" F. Baiardi, M. Yannnishi

Session IVb:
"Simultaneity is Harder than Agreement" B. Coan, C. Dwork
"Optimal Checkpointing in Real-Time Systems" K.G. Shin, T. Lin, Y. Lee
"A Danung Network Model and Performance Analysis of the Fault Tolerant Systems in Parallel Execution of Conversations" K.H. Kim, S. Heu, S.M. Yang

Session Va:
"Relocating Processes in a Distributed Computer System" D.F. Ferguson, G. Lehtnen, G.K. C.N. Nikolaou
"Reliability and Dynamic Configuration of a Distributed System" R. Zicari
"State Inconsistency Issues in Local Area Network Based Distributed Systems" K. Ravindran, S.T. Chanson

Session Vb:
"A Token Based Resiliency Control Scheme in Replicated Database Systems" S.H. Sun, A.K. Agrawala

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SPECIAL INVITED LECTURE:
Brian Randell, U of New Castel upon Tyne, England
Reliability and Security Issues in Distributed Systems

INVITED DISTINGUISHED SPEAKERS:
Session Chair: Flavio Cristian, IBM Research, San Jose, CA
Problems in Fault-Tolerant Distributed Computing
Jim Gray, Tandem Computers, Cupertino, CA
Why do Computers Fail? What can be Done About It?
Hector Garcia-Molina, Princeton University
Replicated Data Management
Ray Strong, IBM Research, San Jose, CA
Problems in Fault-Tolerant Distributed Systems
Gerard LeLann, INRIA, France
Issues in Fault-Tolerant Real Time LAN

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Single $80
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