

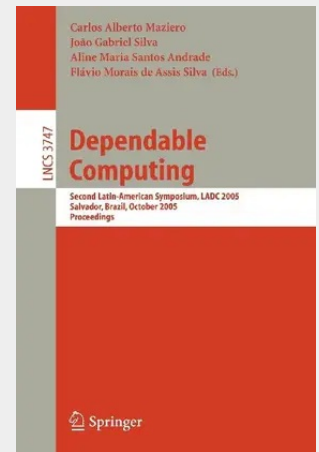
Dependable Computing

Second Latin-American Symposium, LADC 2005, Salvador, Brazil, October 25-28, 2005, Proceedings

The Latin-American Symposium on Dependable Computing, LADC, is the main Latin-American event dedicated to the discussion of the many issues related to dependability in computer systems and networks. It is a forum for researchers and practitioners (from all over the world) to present and discuss their latest results and experiences in this field. LADC 2005, the second edition of this event, followed on the success of LADC 2003, which took place at the Polytechnic School of the University of São Paulo. It was organized by LaSiD, the Distributed Systems Laboratory associated with the Department of Computer Science of the Federal University of Bahia. LADC 2005 was sponsored by SBC, the Brazilian Computer Society, in cooperation with IEEE TCon Fault-Tolerant Computing, IFIP Working Group 10.4 "Dependable Computing and Fault-Tolerance", SADIO, the Argentine Society for Informatics and Operations Research, SCCC, the Chilean Computer Science Society, and SMCC, the Mexican Society for Computer Science.

LADC 2005 was structured around technical sessions, keynote speeches and a panel. Two workshops were co-located with LADC 2005: WDAS (Latin-American Workshop on Dependable Automation Systems) and WTD (3rd Workshop on Theses and Dissertations on Dependable Computing). WDAS is a forum where members of academia and industry can meet to discuss specific dependability issues related to automation systems. WTD is a student forum dedicated to the discussion of ongoing and recent work in the field of dependability carried out at graduate level.

Invited Talks.- Probabilistic Validation of Computer System Survivability.- Timed Asynchronous Distributed Systems.- WLAN in Automation - More Than an Academic Exercise?.- Evaluation.- Using Stratified Sampling for Fault Injection.- A Methodology for the Automated Identification of Buffer Overflow Vulnerabilities in Executable Software Without Source-Code.- Quantitative Evaluation of Distributed Algorithms Using the Neko Framework: The NekoStat Extension.- Certification.- Airborne Software Concerns in Civil Aviation Certification.- Modelling.- A Method for Modeling and Testing Exceptions in Component-Based Software Development.- Verifying Fault-Tolerant Distributed Systems Using Object-Based Graph Grammars.- The Zerberus Language: Describing the Functional Model of Dependable Real-Time Systems.- Embedded Systems.- Soft Error Mitigation in Cache Memories of Embedded Systems by Means of a Protected Scheme.- On the Effects of Errors During Boot.- A Fault Tolerant Approach to Object Oriented Design and Synthesis of Embedded Systems.- Time.- Scheduling Fixed-Priority Hard Real-Time Tasks in the Presence of Faults.- On the Monitoring Period for Fault-Tolerant Sensor Networks.- Adapting Failure Detectors to Communication Network Load Fluctuations Using SNMP and Artificial Neural Nets.- Distributed Systems Algorithms.- Parsimony-Based Approach for Obtaining Resource-Efficient and Trustworthy Execution.- Generating Fast Atomic Commit from Hyperfast Consensus.- Group-Based Replication of On-Line Transaction Processing Servers.- Workshops.- Third Workshop on Theses and Dissertations on Dependable Computing.- Latin-American Workshop on Dependable Automation Systems.- Tutorials.- Software Architectures for Dependable Systems.- Fault-Tolerant Techniques for Concurrent Objects.- Agreement Protocols in Environments with Temporal Uncertainties.



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