

<<Dependable Computing>>

图书基本信息

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内容概要

This book constitutes the refereed proceedings of the 5th European Dependable Computing Conference, EDCC 2005, held in Budapest, Hungary in April 2005. The 21 revised full papers, 5 revised practical experience reports, and 4 prototype description papers presented together with the abstract of a keynote and 2 fast-track papers were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on distributed algorithms, fault-tolerant design and protocols, practical experience reports and tools, assessment and analysis, measurement, hardware verification, dependable networking, and reliability engineering and testing.

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书籍目录

Keynote A Process Toward Total Dependability - Airbus Fly-by-Wire Paradigm Session 1A: Distributed Algorithms Building and Using Quorums Despite Any Number of Process Crashes Failure Detection with Booting in Partially Synchronous Systems Total Order Communications: A Practical Analysis Gracefully Degrading Fair Exchange with Security Modules Session 1B: Fault Tolerant Design and Protocols Adding Fault-Tolerance Using Pre-synthesized Components Efficiency of Dynamic Arbitration in TDMA Protocols An Architectural Framework for Detecting Process Hangs/Crashes Energy Efficient Configuration for QoS in Reliable Parallel Servers Session 2A: Practical Experience Reports and Tools I Novel Generic Middleware Building Blocks for Dependable Modular Avionics Systems Integrating Fault Tolerance and Load Balancing in Distributed Systems Based on CORBA Performance Evaluation of Consistent Recovery Protocols Using MPICH-GF Session 2B: Assessment and Analysis An Approach to Experimentally Obtain Service Dependability Characteristics of the Jgroup/ARM System The Effectiveness of Choice of Programming Language as a Diversity Seeking Decision Formal Safety Analysis of a Radio-Based Railroad Crossing Using Deductive Cause-Consequence Analysis (DCCA) Panel Dependability Challenges and Education PerspectivesKeynote Availability in Industry and Science - A Business Perspective Session 3A: Measurement Fast Run-Time Reconfiguration for SEU Injection Assembly-Level Pre-injection Analysis for Improving Fault Injection Efficiency Session 3B: Practical Experience Reports and Tools Session 4A: Hardware Verification Session 4B: Fast Abstracts Session 5A: Dependable Networking Session 5B: Fast Abstracts Session 6A: Practical Experience Reports and Tools Session 6B: Reliability Engineering and Testing Author Index

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