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This book presents a set of techniques for dependable computing, known collectively as Proactive Failure Avoidance, Recovery, and Maintenance, or PFARM, which can have a major impact on computer systems availability and performance.

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Dependable Computing with Proactive Failure Avoidance ...
Dependable Computing specializes in systems and software engineering for applications that have extreme consequences of failure such as threats to human life, extreme loss of assets, or damage to the environment.

This book presents a set of techniques for dependable computing, known collectively as Proactive Failure Avoidance, Recovery, and Maintenance, or PFARM, which can have a major impact on computer systems availability and performance. It focuses on runtime monitoring, failure avoidance and prediction algorithms and technologies, proactive recovery and preventive maintenance, as the main steps in proactive fault management. Coverage includes runtime monitoring techniques, long-term and short-term prediction techniques, an introduction to prediction quality measures, and a demonstration of how the availability of software and hardware systems can be increased by preventive measures which are triggered by short-term failure prediction mechanisms.

This tutorial book gives an overview of the current state of the art in measuring the different aspects of dependability of systems: reliability, security and performance.

As software systems become increasingly ubiquitous, issues of dependability become ever more crucial. Given that solutions to these issues must be considered from the very beginning of the design process, it is clear that dependability and security have to be addressed at the architectural level. This book, as well as its six predecessors, was born of an effort to bring together the research communities of software architectures, dependability, and security. This state-of-the-art survey contains expanded, peer-reviewed papers based on selected contributions from the Workshop on Architecting Dependable Systems (WADS 2009), held at the International Conference on Dependable Systems and Networks (DSN 2009), as well as a number of invited papers written by renowned experts in the area. The 13 papers are organized in topical sections on: mobile and ubiquitous systems, architecting systems, fault management, and experience and vision.

Fundamentals of Dependable Computing for Software Engineers presents the essential elements of computer system dependability. The book describes a comprehensive dependability-engineering process and explains the roles of software and software engineers in computer system dependability. Readers will learn:Why dependability mattersWhat it means for a

It is always a special honor to chair the European Dependable Computing C- ference (EDCC). EDCC has become one of the well-established conferences in the ?eld of dependability in the European research area. Budapest was selected as the host of this conference due to its traditions in organizing international scienti?c events and its traditional role of serving as a meeting point between East and West. EDCC-5 was the ?fth in the series of these high-quality scienti?c conf- ences. In addition to the overall signi?cance of such a pan-European event, this year's conference was a special one due to historic reasons. The roots of EDCC date back to the moment when the Iron Curtain fell. Originally, two groups of scientists from di?erent European countries in Western and Eastern Europe — who were active in research and education related to dependability created a — joint forum in order to merge their communities as early as in 1989. This trend has continued up to today. This year's conference was the ?rst one where the overwhelming majority of the research groups belong to the family of European nations united in the European Union. During the past 16 years we observed that the same roots in all the professional, cultural and scienti?c senses led to a seamless integration of these research communities previously separated ar- ?cially for a long time. EDCC has become one of the main European platforms to exchange new - searchideasinthe?eldofdependability.

The two-volume set LNAI 9119 and LNAI 9120 constitutes the refereed proceedings of the 14th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2015, held in Zakopane, Poland in June 2015. The 142 revised full papers presented in the volumes, were carefully reviewed and selected from 322 submissions. These proceedings present both traditional artificial intelligence methods and soft computing techniques. The goal is to bring together scientists representing both areas of research. The first volume covers topics as follows neural networks and their applications, fuzzy systems and their applications, evolutionary algorithms and their applications, classification and estimation, computer vision, image and speech analysis and the workshop: large-scale visual recognition and machine learning. The second volume has the focus on the following subjects: data mining, bioinformatics, biometrics and medical applications, concurrent and parallel processing, agent systems, robotics and control, artificial intelligence in modeling and simulation and various problems of artificial intelligence.

Dependability analysis is the recent approach to performance evaluation of contemporary systems which tries to cope with new challenges that are brought with their unprecedented complexity, size and diversity. Especially in case of computer systems and networks such evaluation must be based on multidisciplinary approach to theory, technology, and maintenance of systems which operate in real (and very often unfriendly) environments. As opposed to "classic" reliability which focuses mainly on technical aspects of system functioning, dependability studies investigate the systems as multifaceted and sophisticated amalgamations of technical, information and also human resources. This monograph presents selected new developments in such areas of dependability research as mathematical models, evaluation of software, probabilistic assessment, methodologies, tools, and technologies. Intelligent and soft computing methods help to resolve fundamental problems of dependability analysis which are caused by the fact that in contemporary computer systems it is often difficult to find a relation between system elements and system events (the relation between reasons and results) and it is even more difficult to define strict mathematical models with "analytical" relationships between such phenomena.

This book constitutes the refereed proceedings of the Third Latin-American Symposium on Dependable Computing, LADC 2007, held in Morelia, Mexico, in September 2007. The papers are organized in topical sections on fault-tolerant algorithms, software engineering of dependable systems, networking and mobile computing, experimental dependability evaluation, as well as intrusion tolerance and security.

This book constitutes the refereed proceedings of the Second Latin-American Symposium on Dependable Computing, LADC 2005, held in Salvador, Brazil, in October 2005. The 16 revised full papers presented together with 3 invited talks, and outlines of 2 workshops and 3 tutorials, were carefully reviewed and selected from 39 submissions. The papers are organized in topical sections on evaluation, certification, modelling, embedded systems, time, and distributed systems algorithms.

Grids, P2P and Services Computing, the 12th volume of the CoreGRID series, is based on the CoreGrid ERCIM Working Group Workshop on Grids, P2P and Service Computing in Conjunction with EuroPar 2009. The workshop will take place August 24th, 2009 in Delft, The Netherlands. Grids, P2P and Services Computing, an edited volume contributed by well-established researchers worldwide, will focus on solving research challenges for Grid and P2P technologies. Topics of interest include: Service Level Agreement, Data & Knowledge Management, Scheduling, Trust and Security, Network Monitoring and more. Grids are a crucial enabling technology for scientific and industrial development. This book also includes new challenges related to service-oriented infrastructures. Grids, P2P and Services Computing is designed for a professional audience composed of researchers and practitioners within the Grid community industry. This volume is also suitable for advanced-level students in computer science.