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Reliability And Maintainability Symposium 199

**Millie Pant, Kusum Deep, Jagdish Chand
Bansal, Atulya Nagar, Kedar Nath Das**

Reliability And Maintainability Symposium 199:

Proceedings of the Ninth International Conference on Dependability and Complex Systems DepCoS-RELCOMEX. June 30 - July 4, 2014, Brunów, Poland Wojciech Zamojski, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak, Janusz Kacprzyk, 2014-05-16 DepCoS RELCOMEX is an annual series of conferences organized by Wrocław University of Technology to promote a comprehensive approach to evaluation of system performability which is now commonly called dependability. In contrast to classic analyses which were concentrated on reliability of technical resources and structures built from them, dependability is based on a multi-disciplinary approach to theory, technology and maintenance of a system considered to be a multifaceted amalgamation of technical information, organization, software and human users, administrators, supervisors etc. Resources, diversity of processes being realized, data processing, system management, system monitoring etc. their concurrency and their reliance on system intelligence often severely impedes construction of strict mathematical models and calls for application of intelligent and soft computing methods. This book presents the proceedings of the Ninth International Conference on Dependability and Complex Systems DepCoS RELCOMEX which took place in Brunów Palace, Poland from 30th June to 4th July 2014. The articles selected for this volume illustrate the variety of topics that must be included in system dependability analysis: tools, methodologies and standards for modelling, design and simulation of the systems, security and confidentiality in information processing, specific issues of heterogeneous, today often wireless, computer networks or management of transportation networks. *Recent Advances in Stochastic Operations Research* Tadashi Dohi, Shunji Osaki, 2007 Operations research uses quantitative models to analyze and predict the behavior of systems and to provide information for decision makers. Two key concepts in operations research are optimization and uncertainty. This volume consists of a collection of peer-reviewed papers from the International Workshop on Recent Advances in Stochastic Operations Research RASOR 2005 August 25-26 2005 Canmore, Alberta, Canada. In particular, the book focusses on models in stochastic operations research including queueing models, inventory models, financial engineering models, reliability models and simulations models. *Proceedings of Fifth International Conference on Soft Computing for Problem Solving* Millie Pant, Kusum Deep, Jagdish Chand Bansal, Atulya Nagar, Kedar Nath Das, 2016-04-20 The proceedings of SocProS 2015 will serve as an academic bonanza for scientists and researchers working in the field of Soft Computing. This book contains theoretical as well as practical aspects using fuzzy logic, neural networks, evolutionary algorithms, swarm intelligence algorithms etc. with many applications under the umbrella of Soft Computing. The book will be beneficial for young as well as experienced researchers dealing across complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task. The different application areas covered in the proceedings are Image Processing, Cryptanalysis, Industrial Optimization, Supply Chain Management, Newly Proposed Nature Inspired Algorithms, Signal Processing Problems related to Medical and Health Care, Networking Optimization Problems etc. *Sneak Circuits of Power Electronic*

Converters Bo Zhang, Dongyuan Qiu, 2015-02-09 Sneak Circuits of Power Electronic Converters Sneak Circuits of Power Electronic Converters Work on sneak circuits and related analysis methods for power converters contributes to the reliability of power electronic systems worldwide Most books on the subject focus on electronic systems this book is perhaps the first to examine power electronic systems The authors describe sneak circuit phenomena in power converters introduce SCA methods for power electronic systems and propose how to eliminate and make use of sneak circuits This book highlights the advanced research works in sneak circuit analysis by a leading author in the field is original in its treatment of power electronics converters going beyond the electronic system level is suitable for both introductory and advanced levels offers guidelines for industry professionals involved in the design of power electronic systems enabling early detection of potential problems This book is geared for researchers and graduate students in electrical engineering as well as engineers and researchers in power electronics Researchers in power electronics reliability will also find it to be a helpful resource

Handbook of Maintenance Management and Engineering Mohamed Ben-Daya, Salih O. Duffuaa, Abdul Raouf, Jezdimir Knezevic, Daoud Ait-Kadi, 2009-07-30 To be able to compete successfully both at national and international levels production systems and equipment must perform at levels not even thinkable a decade ago Requirements for increased product quality reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance In some cases maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital operating and support costs This may be the largest challenge facing production enterprises these days For this maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering This handbook aims to assist at different levels of understanding whether the manager is an engineer a production manager an experienced maintenance practitioner or a beginner Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering

Proceedings of the Fourth International Network Conference 2004 (INC2004) Steven Furnell, Paul Dowland, 2004 **Engineering Asset Management and Infrastructure Sustainability** Joseph Mathew, Lin Ma, Andy Tan, Margot Weijnen, Jay Lee, 2012-05-11 Engineering Asset Management 2010 represents state of the art trends and developments in the emerging field of engineering asset management as presented at the Fifth World Congress on Engineering Asset Management WCEAM The proceedings of the WCEAM 2010 is an excellent reference for practitioners researchers and students in the multidisciplinary field of asset management covering topics such as Asset condition monitoring and intelligent maintenance Asset data warehousing data

mining and fusion Asset performance and level of service models Design and life cycle integrity of physical assets Education and training in asset management Engineering standards in asset management Fault diagnosis and prognostics Financial analysis methods for physical assets Human dimensions in integrated asset management Information quality management Information systems and knowledge management Intelligent sensors and devices Maintenance strategies in asset management Optimisation decisions in asset management Risk management in asset management Strategic asset management Sustainability in asset management *Understanding and Coping with Failures in Large-scale Storage Systems* Qin Xin,2005 **Management and Office Information Systems** Shi-Kuo Chang,2012-12-06 Decision making is a very complex phenomenon Modern decision makers must deal with very complex problems which are constantly changing and often ill structured making modeling and analysis difficult In order to provide support for the decision makers computer based information systems are designed to collect store process and transport information Recent advances in computer technology data communications database systems office automation and knowledge engineering have made possible the design of very sophisticated information systems However rapid technological advances also create many problems not the least of which is the lack of integration among the various disciplines in information system design Without such integration a costly computer based information system is at best partially useful and at worst totally useless The aim of this book therefore is to examine the various issues involved in designing management information systems decision support systems and office information systems for increasing productivity and providing decision support This book is the outcome of the Workshop on Management and Office Information Systems which was organized by the Knowledge Systems Institute and held at Chicago Illinois from June 28 to 30 1982 Twenty seven papers from the working papers presented at that workshop were selected for inclusion in the present volume which is organized into five parts I organization structures and management II decision support systems III database systems IV office information systems and V systems and applications

Safety and Human Error in Engineering Systems B.S. Dhillon,2012-07-05 In an approach that combines coverage of safety and human error into a single volume *Safety and Human Error in Engineering Systems* eliminates the need to consult many different and diverse sources for those who need information about both topics The book begins with an introduction to aspects of safety and human error and a discussion of mathematical concepts that builds understanding of the material presented in subsequent chapters The author describes the methods that can be used to perform safety and human error analysis in engineering systems and includes examples along with their solutions as well as problems to test reader comprehension He presents a total of ten methods considered useful for performing safety and human error analysis in engineering systems The book also covers safety and human error transportation systems medical systems and mining equipment as well as robots and software Nowadays engineering systems are an important element of the world economy as each year billions of dollars are spent to develop manufacture and operate various types of engineering systems around the

globe A rise in accidental deaths has put the spotlight on the role human error plays in the safety and failure of these systems Written by an expert in various aspects of healthcare engineering management design reliability safety and quality this book provides tools and techniques for improving engineering systems with respect to human error and safety ECAI 2000 European Coordinating Committee for Artificial Intelligence,2000 This volume covers the whole spectrum of artificial intelligence including knowledge representation automated reasoning constraint based reasoning machine learning autonomous agents human language technology planning vision and robotics and AI aspects of uncertainty and of creativity The book further includes contributions on innovative application All contributions are peer reviewed by an international Programme Committee

Life Cycle Reliability Engineering Guang Yang,2007-02-02 As the Lead Reliability Engineer for Ford Motor Company Guangbin Yang is involved with all aspects of the design and production of complex automotive systems Focusing on real world problems and solutions Life Cycle Reliability Engineering covers the gamut of the techniques used for reliability assurance throughout a product s life cycle Yang pulls real world examples from his work and other industries to explain the methods of robust design designing reliability into a product or system ahead of time statistical and real product testing software testing and ultimately verification and warranting of the final product s reliability Genetic Algorithms and Engineering Optimization Mitsuo Gen,Runwei Cheng,1999-12-28 A comprehensive guide to a powerful new analytical tool by two of its foremost innovators The past decade has witnessed many exciting advances in the use of genetic algorithms GAs to solve optimization problems in everything from product design to scheduling and client server networking Aided by GAs analysts and designers now routinely evolve solutions to complex combinatorial and multiobjective optimization problems with an ease and rapidity unthinkable with conventional methods Despite the continued growth and refinement of this powerful analytical tool there continues to be a lack of up to date guides to contemporary GA optimization principles and practices Written by two of the world s leading experts in the field this book fills that gap in the literature Taking an intuitive approach Mitsuo Gen and Runwei Cheng employ numerous illustrations and real world examples to help readers gain a thorough understanding of basic GA concepts including encoding adaptation and genetic optimizations and to show how GAs can be used to solve an array of constrained combinatorial multiobjective and fuzzy optimization problems Focusing on problems commonly encountered in industry especially in manufacturing Professors Gen and Cheng provide in depth coverage of advanced GA techniques for Reliability design Manufacturing cell design Scheduling Advanced transportation problems Network design and routing Genetic Algorithms and Engineering Optimization is an indispensable working resource for industrial engineers and designers as well as systems analysts operations researchers and management scientists working in manufacturing and related industries It also makes an excellent primary or supplementary text for advanced courses in industrial engineering management science operations research computer science and artificial intelligence

Network Models and Optimization Mitsuo Gen,Runwei Cheng,Lin Lin,2008-07-10 Network models are

critical tools in business management science and industry Network Models and Optimization presents an insightful comprehensive and up to date treatment of multiple objective genetic algorithms to network optimization problems in many disciplines such as engineering computer science operations research transportation telecommunication and manufacturing The book extensively covers algorithms and applications including shortest path problems minimum cost flow problems maximum flow problems minimum spanning tree problems traveling salesman and postman problems location allocation problems project scheduling problems multistage based scheduling problems logistics network problems communication network problem and network models in assembly line balancing problems and airline fleet assignment problems The book can be used both as a student textbook and as a professional reference for practitioners who use network optimization methods to model and solve problems

Risk-Based Management Richard B. Jones, 2012-08-21 First published in 1995 Completely eliminating risk is not an achievable goal but risk reduction is an essential part of every corporation's management portfolio Here are risk based management principles that will help you make better business decisions in an increasingly competitive and regulated world

Rare Event Simulation using Monte Carlo Methods Gerardo Rubino, Bruno Tuffin, 2009-03-18 In a probabilistic model a rare event is an event with a very small probability of occurrence The forecasting of rare events is a formidable task but is important in many areas For instance a catastrophic failure in a transport system or in a nuclear power plant the failure of an information processing system in a bank or in the communication network of a group of banks leading to financial losses Being able to evaluate the probability of rare events is therefore a critical issue Monte Carlo Methods the simulation of corresponding models are used to analyze rare events This book sets out to present the mathematical tools available for the efficient simulation of rare events Importance sampling and splitting are presented along with an exposition of how to apply these tools to a variety of fields ranging from performance and dependability evaluation of complex systems typically in computer science or in telecommunications to chemical reaction analysis in biology or particle transport in physics Graduate students researchers and practitioners who wish to learn and apply rare event simulation techniques will find this book beneficial

Soft Computing in Communications Lipo Wang, 2013-06-05 Soft computing as opposed to conventional hard computing tolerates imprecision and uncertainty in a way very much similar to the human mind Soft computing techniques include neural networks evolutionary computation fuzzy logic and chaos The recent years have witnessed tremendous success of these powerful methods in virtually all areas of science and technology as evidenced by the large numbers of research results published in a variety of journals conferences as well as many excellent books in this book series on Studies in Fuzziness and Soft Computing This volume is dedicated to recent novel applications of soft computing in communications The book is organized in four Parts i e 1 neural networks 2 evolutionary computation 3 fuzzy logic and neurofuzzy systems and 4 kernel methods Artificial neural networks consist of simple processing elements called neurons which are connected by weights that may be adjusted during learning Part 1 of

the book has seven chapters demonstrating some of the capabilities of two major types of neural networks i.e. multiplayer perceptron MLP neural networks and Hopfield type neural networks

Evolutionary Design by Computers Peter Bentley, 1999-05-28 Evolutionary Design By Computers offers an enticing preview of the future of computer aided design Design by Darwin Lawrence J Fogel President Natural Selection Inc Evolutionary design by computers is the major revolution in design thinking of the 20th century and this book is the best introduction available Professor John Frazer Swire Chair and Head of School of Design the Hong Kong Polytechnic University Author of An Evolutionary Architecture Peter Bentley has assembled and edited an important collection of papers that demonstrate convincingly the utility of evolutionary computation for engineering solutions to complex problems in design David B Fogel Editor in Chief IEEE Transactions on Evolutionary Computation Some of the most startling achievements in the use of computers to automate design are being accomplished by the use of evolutionary search algorithms to evolve designs Evolutionary Design By Computers provides a showcase of the best and most original work of the leading international experts in Evolutionary Computation Engineering Design Computer Art and Artificial Life By bringing together the highest achievers in these fields for the first time including a foreword by Richard Dawkins this book provides the definitive coverage of significant developments in Evolutionary Design This book explores related sub areas of Evolutionary Design including design optimization creative design the creation of art artificial life It shows for the first time how techniques in each area overlap and promotes the cross fertilization of ideas and methods

Advances in Computers, 1987-06-01 Advances in Computers

Networking and Telecommunications: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2010-01-31 This multiple volume publications exhibits the most up to date collection of research results and recent discoveries in the transfer of knowledge access across the globe Provided by publisher

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