



ELSEVIER INSIGHTS

RELIABILITY OF LARGE AND COMPLEX SYSTEMS

— edited by —

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Reliability Of Large Systems

Hoang Pham



Reliability Of Large Systems:

System Dependability - Theory and Applications Wojciech Zamojski, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak, Janusz Kacprzyk, 2024-06-13 This book presents a selection of papers about problems which arise in dependability studies of contemporary computer systems and networks Their collection should be an interesting and inspiring source material for scientists researchers engineers and students who must consider diverse dependability characteristics in design analysis or maintenance of computer systems and networks The papers were presented during the 19th DepCoS RELCOMEX conference which was the next event in a series organized annually since 2006 Originating as a scientific platform for discussions of reliability aspects in computer engineering the topical scope of the conference has been constantly expanded to incorporate new dependability challenges brought by recent advances in systems and information technologies Currently dependable operation in the context of computer processing means obtaining reliable true and timely results in the conditions of processing both quantitative and qualitative data using precise or fuzzy often imitating models and algorithms With increasing use of artificial intelligence algorithms and tools dependability in contemporary information technology and computer engineering calls for methods based on cognitive systems and deep learning techniques Topical variety of the papers included in these proceedings proves that almost all applications of modern computer systems and networks must take into account the aspect of dependability and also illustrates a wide diversity of multidisciplinary subjects which needs to be considered in this context

Encyclopedia of Quantitative Risk Analysis and Assessment, 2008-09-02 Leading the way in this field the Encyclopedia of Quantitative Risk Analysis and Assessment is the first publication to offer a modern comprehensive and in depth resource to the huge variety of disciplines involved A truly international work its coverage ranges across risk issues pertinent to life scientists engineers policy makers healthcare professionals the finance industry the military and practising statisticians Drawing on the expertise of world renowned authors and editors in this field this title provides up to date material on drug safety investment theory public policy applications transportation safety public perception of risk epidemiological risk national defence and security critical infrastructure and program management This major publication is easily accessible for all those involved in the field of risk assessment and analysis For ease of use it is available in print and online

Computer Aided Design of Control Systems M. A. Cuenod, 2014-05-19 Computer Aided Design of Control Systems focuses on the use of computers to analyze and design the control of various processes as well as the development of program packages with different algorithms for digital computers The selection first takes a look at the computer aided design of minimal order controllers including design of interacting and noninteracting dynamic controllers of minimal order and basic algorithm The book then discusses an accelerated Newton process to solve Riccati equation through matrix sign function suboptimal direct digital control of a trickle bed absorption column and structural design of large systems employing a geometric approach The text underscores the computer as an aid for the implementation of advanced

control algorithms on physical processes and analysis of direct control algorithms and their parallel realization Topics include hardware influences on the control process influence and interactive structure design of direct control systems The book also takes a look at the optimal control of randomly sampled linear stochastic systems computer aided design of suboptimal test signals for system identification and computer aided design of multi level systems with prescribed structure and control constraints The selection is a dependable source of data for readers interested in the uses of computers

Safety and Risk Modeling and Its Applications Hoang Pham, 2011-09-08 Safety and Risk Modeling presents the latest theories and

methods of safety and risk with an emphasis on safety and risk in modeling It covers applications in several areas including transportations and security risk assessments as well as applications related to current topics in safety and risk Safety and Risk Modeling is a valuable resource for understanding the latest developments in both qualitative and quantitative methods of safety and risk analysis and their applications in operating environments Each chapter has been written by active researchers or experienced practitioners to bridge the gap between theory and practice and to trigger new research challenges in safety and risk Topics include safety engineering system maintenance safety in design failure analysis and risk concept and modelling Postgraduate students researchers and practitioners in many fields of engineering operations research management and statistics will find Safety and Risk Modeling a state of the art survey of reliability and quality in design and practice

The Engineering of Large Systems, 1998-09-25 Since its first volume in 1960 Advances in Computers has presented detailed coverage of innovations in hardware and software and in computer theory design and applications It has also provided contributors with a medium in which they can examine their subjects in greater depth and breadth than that allowed by standard journal articles As a result many articles have become standard references that continue to be of significant lasting value despite the rapid growth taking place in the field This volume is organized around engineering large scale software systems It discusses which technologies are useful for building these systems which are useful to incorporate in these systems and which are useful to evaluate these systems

Proceedings of the 1993 International Conference on Parallel Processing Salim Hariri, P. Bruce Berra, 1993-08-16 This three volume work presents a compendium of current and seminal papers on parallel distributed processing offered at the 22nd International Conference on Parallel Processing held August 16 20 1993 in Chicago Illinois Topics include processor architectures mapping algorithms to parallel systems performance evaluations fault diagnosis recovery and tolerance cube networks portable software synchronization compilers hypercube computing and image processing and graphics Computer professionals in parallel processing distributed systems and software engineering will find this book essential to complete their computer reference library

Safety Analysis of Critical Infrastructure Joanna Soszyńska-Budny, 2021-03-05 This book deals with critical infrastructure safety analysis based on reliability modelling of multistate ageing system It shows how changes of the operation process as well as climate weather changes in the operating area of the critical infrastructure do influence the safety parameters of its assets Building

upon previous authors research the book formulates an integrated modeling approach where the multistate critical infrastructure safety model is combined with semi Markov models for its operation process and for the climate weather change process This approach is shown to be successful in determining basic critical infrastructure safety risk and resilience indicators regardless of the number of assets and the number of their safety states Besides the theory the book reports on a successful application to the safety analysis of a real critical infrastructure such as a port oil terminal All in all this book proposes a comprehensive and timely review of cutting edge mathematical methods for safety identification prediction and evaluation of critical infrastructures It demonstrates that these methods can be applied in practice for analyzing safety of critical infrastructure under time varying operation and climate weather change processes Introduction to Civil

Engineering Systems Samuel Labi,2014-04-07 This book presents an integrated systems approach to the evaluation analysis design and maintenance of civil engineering systems Addressing recent concerns about the world s aging civil infrastructure and its environmental impact the author makes the case for why any civil infrastructure should be seen as part of a larger whole He walks readers through all phases of a civil project from feasibility assessment to construction to operations explaining how to evaluate tasks and challenges at each phase using a holistic approach Unique coverage of ethics legal issues and management is also included **Competitive Aspects of the Energy Industry** United States. Congress.

Senate. Committee on the Judiciary. Subcommittee on Antitrust and Monopoly,1971 **Information Processing and Management of Uncertainty in Knowledge-Based Systems** Joao Paulo Carvalho,Marie-Jeanne Lesot,Uzay Kaymak,Susana Vieira,Bernadette Bouchon-Meunier,Ronald R. Yager,2016-06-10 This two volume set CCIS 610 and 611 constitute the proceedings of the 16th International Conference on Information processing and Management of Uncertainty in Knowledge Based Systems IPMU 2016 held in Eindhoven The Netherlands in June 2016 The 127 revised full papers presented together with four invited talks were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on fuzzy measures and integrals uncertainty quantification with imprecise probability textual data processing belief functions theory and its applications graphical models fuzzy implications functions applications in medicine and bioinformatics real world applications soft computing for image processing clustering fuzzy logic formal concept analysis and rough sets graded and many valued modal logics imperfect databases multiple criteria decision methods argumentation and belief revision databases and information systems conceptual aspects of data aggregation and complex data fusion fuzzy sets and fuzzy logic decision support comparison measures machine learning social data processing temporal data processing aggregation *National Power Grid Study* United States. Department of Energy. Office of Utility

Systems,1979 **Hearings, Reports and Prints of the Senate Committee on the Judiciary** United States. Congress. Senate. Committee on the Judiciary,1969 Parallel Computing: Software Technology, Algorithms, Architectures &

Applications Gerhard Joubert,Wolfgang Nagel,Frans Peters,Wolfgang Walter,2004-09-23 Advances in Parallel Computing

series presents the theory and use of parallel computer systems including vector pipeline array fifth and future generation computers and neural computers This volume features original research work as well as accounts on practical experience with and techniques for the use of parallel computers

Optical Coherence Tomography in Cardiovascular Research

Evelyn Regar,A.M.G.J. van Leeuwen,Patrick W. Serruys,2007-03-06 Given that for centuries the standard tool to understand diseases in tissues was the microscope and that its major limitation was that only excised tissue could be used recent technology now permits the examination of diseased tissue in vivo Optical coherence tomography OCT has promising potential when applied to coronary artery disease OCT has the capability to identify coronary plaque and to distinguish between plaques that are stable and unstable If the plaques are stable then OCT can direct percutaneous intervention angioplasty or stenting Optical coherence tomography is a light based imaging technology that allows for very high resolution imaging in biological tissues It has been first applied in ophthalmology where it soon became the golden standard for the assessment of epi retinal processes The unique imaging capabilities have raised the interest of researchers and clinicians in the field of cardiovascular disease since OCT offers unique possibilities to study atherosclerosis pathophysiology in vivo With over 1 1M Americans having a heart attack this year because of unstable plaque rupture OCT may have an increasingly important role in the early diagnosis of coronary artery disease This unique publication offers the reader the basic background to OCT and its role in the diagnosis and management of coronary artery disease The Handbook of Optical Coherence Tomography in Cardiovascular Research introduces the cardiovascular application of this technology Clinicians biologists engineers and physicist are discussing different aspects of cardiovascular OCT application in a multidisciplinary approach The handbook offers the readership a concise overview on the current state of the art of vascular OCT imaging and sheds light on a variety of exciting new developments The physics technical principles of OCT and its application in a broad spectrum of cardiovascular research areas are summarized by highly recognized specialists The potential of OCT in peripheral and coronary arteries and in developmental cardiology are described Each research area is introduced by a clinical expert in the field followed by discussion of different aspects from an engineering biomedical and clinical perspective Specifically the current capabilities for plaque characterization detection of vulnerable plaque guidance of interventional procedures Doppler assessment and molecular contrast imaging are being described The Handbook of Optical Coherence Tomography in Cardiovascular Research targets researchers and clinicians involved in the field of atherosclerosis The summary of basic physics engineering solutions pre clinical and clinical application covers all relevant aspects and will be a valuable reference source

Nuclear Safety ,1968 *Composite Materials for Offshore Operations* S. S. Wang,D. W. Fitting,1995 *Composite Materials for Offshore Operations* Dale W. Fitting,Su Su Wand,1995 Reviews the current state of practice and assesses the current state of the art in using composite materials for offshore petroleum exploration and production operations Also addresses research issues Covers materials systems fabrication and construction material

performance long term durability and environmental effects structural design testing and reliability nondestructive evaluation and condition monitoring flammability and fire safety nonstructural applications advanced applications regulatory concerns and certification issues 35 papers *Systems Approaches in Computer Science and Mathematics* G.E. Lasker, 2014-05-20 Applied Systems and Cybernetics Volume V Systems Approaches in Computer Science and Mathematics covers the proceedings of the International Congress on Applied Systems Research and Cybernetics This book discusses trends and advances in the application of systems science and cybernetics to various fields This volume reviews the systems approaches in computer science and mathematics and concentrates on several major areas of systems research in computer science and theoretical and applied mathematics This book will be of great interest to computer scientists interested in the development of the theories and applications of computer science *Computer and Computing Technologies in Agriculture, Volume I* Daoliang Li, 2008-02-26 The papers in this volume comprise the refereed proceedings of the the First International Conference on Computer and Computing Technologies in Agriculture CCTA 2007 in Wuyishan China 2007 This conference is organized by China Agricultural University Chinese Society of Agricultural Engineering and the Beijing Society for Information Technology in Agriculture The purpose of this conference is to facilitate the communication and cooperation between institutions and researchers on theories methods and implementation of computer science and information technology By researching information technology development and the sources integration in rural areas in China an innovative and effective approach is expected to be explored to promote the technology application to the development of modern agriculture and contribute to the construction of new countryside The rapid development of information technology has induced substantial changes and impact on the development of China's rural areas Western thoughts have exerted great impact on studies of Chinese information technology development and it helps more Chinese and western scholars to expand their studies in this academic and application area Thus this conference with works by many prominent scholars has covered computer science and technology and information development in China's rural areas and probed into all the important issues and the newest research topics such as Agricultural Decision Support System and Expert System GIS GPS RS and Precision Farming CT applications in Rural Area Agricultural System Simulation Evolutionary Computing etc 中国计算机报 中国计算机报 (Japan), 1900

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