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KEY=NONLINEAR - NATHAN VANESSA

Software Fault Detection and Correction: Modeling and Applications

Springer **This book focuses on software fault detection and correction processes, presenting 5 different paired models introduced over the last decade and discussing their applications, in particular to determining software release time. The first work incorporates the testing effort function and the fault introduction process into the paired fault detection and fault correction models. The second work incorporates fault dependency, while the third adopts a Markov approach for studying fault detection and correction processes. The fourth work considers the multi-release property of various software, and models fault detection and correction processes. The last work classifies faults into four types and models the fault-detection and correction processes. Enabling readers to familiarize themselves with how software reliability can be modeled when different factors need to be considered, and how the approaches can be used to analyze other systems, the book is important reference guide for researchers in the field of software reliability engineering and practitioners working on software projects. To gain the most from the book, readers should have a firm grasp of the fundamentals of the stochastic process.**

High-level Function and Delay Testing for Digital Circuits

Dependable Computing

14th European Workshop, EWDC 2013, Coimbra, Portugal, May 15-16, 2013, Proceedings

Springer **This book constitutes the thoroughly refereed proceedings of the 14 the European Workshop on Dependable Computing, EWDC 2013, held in Coimbra, Portugal, in May 2013. The 9 full papers and 6 short papers presented were carefully reviewed and selected from 24 submissions. Also included in the volume are 6 fast abstracts presenting work in progress or new ideas in the dependability area. The papers are organized in topical sections on wireless sensor networks; cloud computing and services; testing and fault detection, fault injection and benchmarking and dependable and secure computing.**

An Introduction to Identification Problems via Functional Analysis

Walter de Gruyter GmbH & Co KG **this monographis based on two courses in computational mathematics and operative research, which were given by the author in recent years to doctorate and PhD students. The text focuses on an aspect of the theory of inverse problems, which is usually referred to as identification of parameters (numbers, vectors, matrices, functions) appearing in differential- or integrodifferential- equations. The parameters of such equations are either quite unknown or partially unknown, however knowledge about these is usually essential as they describe the intrinsic properties of the material or substance under consideration.**

Technical Diagnostics

Collected Papers

Nova Science Pub Incorporated **Contents as follows: general aspects; system reliability and effectiveness; machinery and mechanical systems; cutting tool diagnosis in unmanned manufacturing; technical diagnosis in power plants; methods and techniques; electronics and computer systems. No subject index. Acidic paper. Annotation co**

Detection of Nonlinear Transfer Functions by the Use of Gaussian Statistics

Advances in Secure Computing, Internet Services, and Applications

IGI Global **Technological advancements have extracted a vast amount of useful knowledge and information for applications and services. These developments have evoked intelligent solutions that have been utilized in efforts to secure this data and avoid potential complex problems. Advances in Secure Computing, Internet Services, and Applications presents current research on the applications of computational intelligence in order to focus on the challenge humans face when securing knowledge and data. This book is a vital reference source for researchers, lecturers, professors, students, and developers, who have interest in secure computing and recent advanced in real life applications.**

Technological Innovation for Sustainability

Second IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2011, Costa de Caparica, Portugal, February 22-24, 2011, Proceedings

Springer **This book constitutes the refereed proceedings of the Second IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2011, held in Costa de Caparica, Portugal, in February 2011. The 67 revised full papers were carefully selected from numerous submissions. They cover a wide spectrum of topics ranging from collaborative enterprise networks to microelectronics. The papers are organized in topical sections on collaborative networks, service-oriented systems, computational intelligence, robotic systems, Petri nets, sensorial and perceptional systems, sensorial systems and decision, signal processing, fault-tolerant systems, control systems, energy systems, electrical machines, and electronics.**

Role of Seismic Testing Facilities in Performance-Based Earthquake Engineering

SERIES Workshop

Springer Science & Business Media **Nowadays research in earthquake engineering is mainly experimental and in large-scale; advanced computations are integrated with large-scale experiments, to complement them and extend their scope, even by coupling two different but simultaneous tests. Earthquake engineering cannot give answers by testing and qualifying few, small typical components or single large prototypes. Besides, the large diversity of Civil Engineering structures does not allow drawing conclusions from only a few tests; structures are large and their seismic response and performance cannot be meaningfully tested in an ordinary lab or in the field. So, seismic testing facilities should be much larger than in other scientific fields; their staff has to be resourceful, devising intelligent ways to carry out simultaneously different tests and advanced computations. To better serve such a mission European testing facilities and researchers in earthquake engineering have shared their resources and activities in the framework of the European project SERIES, combining their research and jointly developing advanced testing and instrumentation techniques that maximize testing capabilities and increase the value of the tests. This volume presents the first outcomes of the SERIES and its contribution towards Performance-based Earthquake Engineering, i.e., to the most important development in Earthquake Engineering of the past three decades. The concept and the methodologies for performance-based earthquake engineering have now matured. However, they are based mainly on analytical/numerical research; large-scale seismic testing has entered the stage recently. The SERIES Workshop in Ohrid (MK) in Sept. 2010 pooled together the largest European**

seismic testing facilities, Europe's best experts in experimental earthquake engineering and select experts from the USA, to present recent research achievements and to address future developments. Audience: This volume will be of interest to researchers and advanced practitioners in structural earthquake engineering, geotechnical earthquake engineering, engineering seismology, and experimental dynamics, including seismic qualification.

Cyber Security and IT Infrastructure Protection

Syngress This book serves as a security practitioner's guide to today's most crucial issues in cyber security and IT infrastructure. It offers in-depth coverage of theory, technology, and practice as they relate to established technologies as well as recent advancements. It explores practical solutions to a wide range of cyber-physical and IT infrastructure protection issues. Composed of 11 chapters contributed by leading experts in their fields, this highly useful book covers disaster recovery, biometrics, homeland security, cyber warfare, cyber security, national infrastructure security, access controls, vulnerability assessments and audits, cryptography, and operational and organizational security, as well as an extensive glossary of security terms and acronyms. Written with instructors and students in mind, this book includes methods of analysis and problem-solving techniques through hands-on exercises and worked examples as well as questions and answers and the ability to implement practical solutions through real-life case studies. For example, the new format includes the following pedagogical elements: • Checklists throughout each chapter to gauge understanding • Chapter Review Questions/Exercises and Case Studies • Ancillaries: Solutions Manual; slide package; figure files This format will be attractive to universities and career schools as well as federal and state agencies, corporate security training programs, ASIS certification, etc. Chapters by leaders in the field on theory and practice of cyber security and IT infrastructure protection, allowing the reader to develop a new level of technical expertise Comprehensive and up-to-date coverage of cyber security issues allows the reader to remain current and fully informed from multiple viewpoints Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

Control Applications in Marine Systems 2004

Elsevier Science Serials

The Role of Problem Identification in State and Local Social Service Planning

Application of System Identification in Engineering

Springer System identification is a powerful tool in engineering. Its various methods in the frequency and in the time domain have been extensively discussed in earlier CISM courses. The aim of this course is to describe the state of the art in specific application areas, such as estimation of eigenquantities (in the aerospace industry, in civil engineering, in naval engineering etc.), noise source detection, fault detection by investigation of dynamic properties, such as machine sound characteristics, and the identification of the dynamic behaviour of flow induced systems (e.g. aerolastic problems). Geotechnical applications are also among the fields of interest. The lecture notes contain demonstrations of several methods and include a valuation by combining various kinds of experience. Such complex information includes not only theoretical aspects of identification but also advice on practical handling, for example concerning testing effort and data handling.

Computer Graphics Programming

GKS — The Graphics Standard

Springer Science & Business Media TO COMPUTER GRAPHICS BASED ONGKS Part I gives an introduction to basic concepts of computer graph ics and to the principles and concepts of GKS. The aims of this part are twofold: to provide the beginner with an overview of the terminology and concepts of computer graphics, based on GKS, and to give the computer graphics expert an introduc tion to the GKS standard. In the early chapters of this part, the main areas of computer graphics, the various classes of com puter graphics users, the interfaces of GKS and its underlying design concepts are discussed and important terms are defined. The later chapters give an informal introduction to the main concepts of GKS and their interrelationships: output, attributes, coordinate systems, transformations, input, segments, metafile, state lists, and error handling. This introduction to the GKS framework will prepare the ground for the detailed description of 2D GKS functions in Part III and the 3D extensions to GKS in Part IV. 1 WHAT IS COMPUTER GRAPHICS? 1. 1 Defmition of Computer Graphics The Data Processing Vocabulary of the International Organization for Stan dardization (ISO) [ISO 84] defines Computer Graphics as follows: "Methods and techniques for converting data to and from a graphic display via computer. " This definition refers to three basic components of any computer graphics system - namely "data", "computer", and "display".

Digital Computer Applications to Process Control

Proceedings of the 7th IFAC/IFIP/IMACS Conference, Vienna, Austria, 17-20 September 1985

Elsevier Considers the application of modern control engineering on digital computers with a view to improving productivity and product quality, easing supervision of industrial processes and reducing energy consumption and pollution. The topics covered may be divided into two main subject areas: (1) applications of digital control - in the chemical and oil industries, in water turbines, energy and power systems, robotics and manufacturing, cement, metallurgical processes, traffic control, heating and cooling; (2) systems theoretical aspects of digital control - adaptive systems, control aspects, multivariable systems, optimization and reliability, modelling and identification, real-time software and languages, distributed systems and data networks. Contains 84 papers.

37th AIAA Aerospace Sciences Meeting and Exhibit

January 11-14, 1999, Reno, NV.

Management's Handbook

By a Staff Specialists

Optical Properties of Functional Polymers and Nano Engineering Applications

CRC Press Optical Properties of Functional Polymers and Nano Engineering Applications provides a basic introduction to the optical properties of polymers, as well as a systematic overview of the latest developments in their nano engineering applications. Covering an increasingly important class of materials relevant not only in academic research but also in industry, this comprehensive text: Considers the advantages of the liquid gradient refractive index (L-GRIN) lenses over the conventional solid lenses Explores the electrochemistry of photorefractive polymers, the molecular structure of commonly used polymers, and various 3D holographic displays Discusses gene detection using the optical properties of conjugated polymers Highlights the physics of fluorescence in photoluminescent polymers, and energy and electron transfer mechanisms Introduces conventional polymer ion sensors based on the optical sensors of conjugated polymers prepared by click chemistry reactions Explains colorimetric visual detection of ions by donor–acceptor chromophores Describes optical sensors based on fluorescent polymers and for the detection of explosives and metal ion analytes Addresses holographic polymer-dispersed liquid crystal technology, its optical setups, and its applications in organic lasers Presents cutting-edge research on electrochromic devices, along with new concepts, prototypes, commercial products, and future prospects Demonstrates new techniques for creating nanoscale morphologies through self-assembly, which affect the optical properties of the functional polymers Optical Properties of Functional Polymers and Nano Engineering Applications emphasizes the importance of nano engineering in improving the fundamental optical properties of the functional polymers, elaborating on high-level research while thoroughly explaining the underlying principles.

Machinery and Production Engineering

Functional Nucleic Acids Detection in Food Safety

Theories and Applications

Springer **This book focuses on the development and applications of functional nucleic acid-based detection methods in the context of food safety. Offering a comprehensive overview of nucleic acids detection method in food safety for professionals and members of the public interested in this area, the book is divided into two parts. Part I addresses the basic principle of nucleic acid detection, while Part II presents novel applications of detection methods in genetically modified organisms, the identification of dead-alive microorganisms, microbial diversity, heavy metal detection, gene toxicity and non-coding RNA identification. As such, it provides readers a wealth of knowledge on the use of nucleic acids as targets and media in food safety. It offers a valuable resource for clinicians and basic scientists in the areas of food science and microbiology, and for all those who are interested in the concrete applications of molecular biological techniques. p>**

Structure Preserving Energy Functions in Power Systems

Theory and Applications

CRC Press **A guide for software development of the dynamic security assessment and control of power systems, Structure Preserving Energy Functions in Power Systems: Theory and Applications takes an approach that is more general than previous works on Transient Energy Functions defined using Reduced Network Models. A comprehensive presentation of theory and applications, this book: Describes the analytics of monitoring and predicting dynamic security and emergency control through the illustration of theory and applications of energy functions defined on structure preserving models Covers different facets of dynamic analysis of large bulk power systems such as system stability evaluation, dynamic security assessment, and control, among others Supports illustration of SPEFs using examples and case studies, including descriptions of applications in real-time monitoring, adaptive protection, and emergency control Presents a novel network analogy based on accurate generator models that enables an accurate, yet simplified approach to computing total energy as the aggregate of energy in individual components The book presents analytical tools for online detection of loss of synchronism and suggests adaptive system protection. It covers the design of effective linear damping controllers using FACTS, for damping small oscillations during normal operation to prevent transition to emergency states, and emergency control based on FACTS, to improve first swing stability and also provide rapid damping of nonlinear oscillations that threaten system security during major disturbances. The author includes detection and control algorithms derived from theoretical considerations and illustrated through several examples and case studies on text systems.**

Evaluation of Fault-tolerant Parallel-processor Architectures Over Long Space Missions

Modelling and Identification with Rational Orthogonal Basis Functions

Springer Science & Business Media **Models of dynamical systems are of great importance in almost all fields of science and engineering and specifically in control, signal processing and information science. A model is always only an approximation of a real phenomenon so that having an approximation theory which allows for the analysis of model quality is a substantial concern. The use of rational orthogonal basis functions to represent dynamical systems and stochastic signals can provide such a theory and underpin advanced analysis and efficient modelling. It also has the potential to extend beyond these areas to deal with many problems in circuit theory, telecommunications, systems, control theory and signal processing. Modelling and Identification with Rational Orthogonal Basis Functions affords a self-contained description of the development of the field over the last 15 years, furnishing researchers and practising engineers working with dynamical systems and stochastic processes with a standard reference work.**

Ruppel's Manual of Pulmonary Function Testing - E-Book

Elsevier Health Sciences **Entry- and Advanced-Level objectives prepare you for success on the NBRC's Pulmonary Function Technologist credentialing examinations and follow the content guidelines of the CPFT and RPFT exam matrices from the National Board for Respiratory Care. How To boxes provide step-by-step guidelines to performing pulmonary function tests, taking the guesswork out of completing accurate and result-producing tests. Case studies provide problem-solving challenges for real-life patient scenarios, including each case history, PFT testing results, a technologist's comments, and questions and answers. PFT Tips highlight and reinforce the most important pulmonary function testing information in every chapter. Convenient study features include key terms, chapter outlines, learning objectives, chapter summary points, suggested readings, a glossary, and self-assessment questions. Authoritative, all-in-one resource eliminates the need to search for information in other sources. Criteria for acceptability and repeatability are included in each test section, as well as interpretive strategies to help you adhere to recognized testing standards.**

The Role of Genetic Testing in the Prevention of Occupational Disease

Machinery

Medical Record

AICPA Professional Standards

Functional Nucleic Acid Based Biosensors for Food Safety Detection

Springer **This book highlights the development of a functional nucleic acid based biosensor detection method in the context of food safety. Although there have been major advances in food processing technology in both developed and developing countries, food safety assurance systems are generally becoming more stringent, in response to growing (both real and perceived) food safety problems. These problems are due in part to foodborne microorganisms, heavy metals, and small chemical molecules (biological toxins, pesticide residues, and veterinary drug residues), etc. In addition, the nucleic acid biomarkers (DNA methylation, microRNA, and circRNA) induced by these risk factors are also closely related to food safety. Accordingly, this book offers a brief guide to targets and strategies in functional nucleic acid based biosensors for food safety detection. Divided into several chapters that focus on various respective targets, it will be a valuable resource for students and researchers in the fields of biosensor detection, food science etc.**

Proceedings

Machinery

Adaptive and Intelligent Systems

Second International Conference, ICAIS 2011, Klagenfurt, Austria, September 6-8, 2011, Proceedings

Springer **This book constitutes the proceedings of the International Conference on Adaptive and Intelligent Systems, ICAIS 2011, held in Klagenfurt, Austria, in September 2011. The 36 full papers included in these proceedings together with the abstracts of 4 invited talks, were carefully reviewed and selected from 72 submissions. The contributions are organized under the following topical sections: incremental learning; adaptive system architecture; intelligent system engineering; data mining and pattern recognition; intelligent agents; and computational intelligence.**

Criminal Identification and the Functions of the Identification Division

The role of genetic testing in the prevention of occupational disease summary

DIANE Publishing

Paediatric Pulmonary Function Testing

Karger Medical and Scientific Publishers **This book represents a comprehensive review of the most recent developments in paediatric pulmonary function testing and their clinical applications in common paediatric respiratory disorders. The first section reviews the current lung function tests used in infants and toddlers who are by nature unable to cooperate with most testing procedures. It describes the methodologies, provides normal values where available, and gives advice for data interpretation. The second section deals with the classic adult-type pulmonary function tests and their application in the semi-cooperative or cooperative.**

Testing and Diagnosis of Analog Circuits and Systems

Springer Science & Business Media **IS THE TOPIC ANALOG TESTING AND DIAGNOSIS TIMELY? Yes, indeed it is. Testing and Diagnosis is an important topic and fulfills a vital need for the electronic industry. The testing and diagnosis of digital electronic circuits has been successfully developed to the point that it can be automated. Unfortu nately, its development for analog electronic circuits is still in its Stone Age. The engineer's intuition is still the most powerful tool used in the industry! There are two reasons for this. One is that there has been no pressing need from the industry. Analog circuits are usually small in size. Sometimes, the engineer's experience and intuition are sufficient to fulfill the need. The other reason is that there are no breakthrough results from academic re search to provide the industry with critical ideas to develop tools. This is not because of a lack of effort. Both academic and industrial research groups have made major efforts to look into this problem. Unfortunately, the prob lem for analog circuits is fundamentally different from and much more diffi cult than its counterpart for digital circuits. These efforts have led to some important findings, but are still not at the point of being practically useful. However, these situations are now changing. The current trend for the design of VLSI chips is to use analog/digital hybrid circuits, instead of digital circuits from the past. Therefore, even lx x Preface though the analog circuit may be small, the total circuit under testing is large.**

Functional Testing of Vestibular Function

Frontiers Media SA

IEEE Transactions on Information Theory

A Functional Description of the Edvac [an Automatically-sequence Serial Binary Electronic Digital Computer

Final Report of Work Under Contract W36-034-ORD-7593 Between the Ordinance Department, Department of the Army and the University of Pennsylvania, Moore School of Electrical Engineering

An Introduction to Signal Detection and Estimation

Springer Science & Business Media **Essential background reading for engineers and scientists working in such fields as communications, control, signal, and image processing, radar and sonar, radio astronomy, seismology, remote sensing, and instrumentation. The book can be used as a textbook for a single course, as well as a combination of an introductory and an advanced course, or even for two separate courses, one in signal detection, the other in estimation.**