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The 13th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2010, was held in Beijing, China from 20-24

September, 2010. The venue was the China National Convention Center (CNCC),

China's largest and newest conference center with excellent facilities and a prime location in the heart of the Olympic Green, adjacent to characteristic constructions like the Bird's Nest (National Stadium) and the Water Cube (National Aquatics Center). MICCAI is the foremost international scientific event in the field of medical image computing and computer-assisted interventions. The annual conference has a high scientific standard by virtue of the threshold for acceptance, and accordingly MICCAI has built up a track record of attracting

leading scientists, engineers and clinicians from a wider range of technical and biomedical disciplines. This year, we received 786 submissions, well in line with the previous two conferences in New York and London. Three program chairs and a program committee of 31 scientists, all with a recognized standing in the field of the conference, were responsible for the selection of the papers. The review process was set up such that each paper was considered by the three program chairs, two program committee members, and a minimum of three external reviewers. The review process was double-blind, so the reviewers did not know the identity of the authors of the submission. After a careful evaluation procedure, in which all controversial and gray area papers were discussed individually, we arrived at a total of 251 accepted papers for MICCAI 2010, of which 45 were selected for podium presentation and 206 for poster presentation. The acceptance percentage (32%) was in keeping with that of

previous MICCAI conferences. All 251 papers are included in the three MICCAI 2010 LNCS volumes. This book conveys mechanical fundamentals of electric railway propulsion, which includes rail-bound guidance, transmission of traction effort from wheel to rail under the influence of non-constant levels of adhesion and the transmission of motor torque to a spring-mounted and thus sliding drive set. This unified survey focuses on linear discrete-time systems and explores natural extensions to nonlinear systems. It emphasizes discrete-time systems, summarizing theoretical and practical aspects of a large class of adaptive algorithms. 1984 edition. Illustrating the power, simplicity, and generality of the concept of flatness, this reference explains how to identify, utilize, and apply flatness in system planning and design. The book includes a large assortment of exercises and models that range from elementary to complex classes of systems. Leading students and professionals through a

vast array of designs, simulations, and analytical studies on the traditional uses of flatness, Differentially Flat Systems contains an extensive amount of examples that showcase the value of flatness in system design, demonstrate how flatness can be assessed in the context of perturbed systems and apply static and dynamic feedback controller design techniques. This volume contains 67 papers reporting on the state-of-the-art research in the fields of adaptive control and intelligent tuning. Papers include applications in robotics, the processing industries and machine control. Microgrid Protection and Control is the result of numerous research works and publications by R&D engineers and scientists of the Microgrid and Energy Internet Research Centre. Through the authors long-routed experience in the microgrid and energy internet industry, this book looks at the sophisticated protection and control issues connected to the special nature of microgrid. The book explains the different ways of

classifying types of microgrids and common misconceptions, looking at industrial and research trends along with the different technical issues and challenges faced with deploying microgrid in various settings. Forecasting short-term demand and renewable generation for optimal operation is covered with techniques for accurate enhancement supported with practical application examples. With chapters on dynamic, transient and tertiary control and experimental and simulation tests this reference is useful for all those working in the research, engineering and application of microgrids and power distribution systems. Contains practical examples to support the research and experimental results on microgrid protection and control Includes detailed theories and referential algorithms Provides innovative solutions to technical issues in protection and control of microgrids Power Electronics and Motor Drive Systems is designed to aid electrical engineers, researchers, and students to analyze

and address common problems in state-of-the-art power electronics technologies. Author Stefanos Manias supplies a detailed discussion of the theory of power electronics circuits and electronic power conversion technology systems, with common problems and methods of analysis to critically evaluate results. These theories are reinforced by simulation examples using well-known and widely available software programs, including SPICE, PSIM, and MATLAB/SIMULINK. Manias expertly analyzes power electronic circuits with basic power semiconductor devices, as well as the new power electronic converters. He also clearly and comprehensively provides an analysis of modulation and output voltage, current control techniques, passive and active filtering, and the characteristics and gating circuits of different power semiconductor switches, such as BJTs, IGBTs, MOSFETs, IGCTs, MCTs and GTOs. Includes step-by-step analysis of power electronic systems Reinforced by simulation

examples using SPICE, PSIM, and MATLAB/SIMULINK Provides 110 common problems and solutions in power electronics technologies The thesis will try to summarise the major power system problems and the important role of the FACTS devices to enhance the power system quality. Then, it will give a brief description for various FACTS and Active Filters controllers as mentioned on the existing publications. Most of the control schemes introduced in the existing papers were designed either for eliminating current harmonics or eliminating voltage flickers or for load flow control. So, this work is devoted to find a proper optimal control schemes for a system with series or shunt or series and shunt converters that can provide all functions together. Various optimal control schemes will be designed for systems with series, shunt and series-shunt converters with the objective to control the load flow through a lines and to eliminate current harmonics and voltage flickers with different

strategies for tracking. • Chapter 1: Gives a general description of most power system problems and the basic techniques used to improve the power system quality. It also gives idea about basic objectives from the FACTS devices. • Chapter 2: Offers detailed description for the basic types of FACTS devices and active filters existing in power industry. • Chapter 3: Describes various shunt controllers for control of the Static Compensator (STATCOM) and various series controllers for the control of the Static Synchronous Series Compensator (SSSC) and various Unified Power Flow Controllers (UPFC) as covered in most existing papers. • Chapter 4: Describes the major control schemes for the shunt active filter as covered by most existing papers. • Chapter 5: Describes the major control schemes for the other types of active filters as covered by most existing papers. • Chapter 6: Gives description for optimal control design. • Chapter 7: Case studies to design different optimal control schemes for system with UPFC

unit to control the power flow, eliminate voltage flicker and eliminate current harmonics. The case studies were repeated for system with only series or shunt converters. Computer Aided Design of Multivariable Technological Systems covers the proceedings of the Second International Federation of Automatic Control (IFAC). The book reviews papers that discuss topics about the use of Computer Aided Design (CAD) in designing multivariable system, such as theoretical issues, applications, and implementations. The book tackles several topics relevant to the use of CAD in designing multivariable systems. Topics include quasi-classical approach to multivariable feedback system designs; fuzzy control for multivariable systems; root loci with multiple gain parameters; multivariable frequency domain stability criteria; and computational algorithms for pole assignment in linear multivariable systems. The text will be of great use to professionals whose work involves designing and implementing

multivariable systems. This book introduces a passivity-based approach which simplifies the controller design task for AC-motors. It presents the application of this novel approach to several classes of AC motors, magnetic levitation systems, microelectromechanical systems (MEMS) and rigid robot manipulators actuated by AC motors. The novel passivity-based approach exploits the fact that the natural energy exchange existing between the mechanical and the electrical subsystems allows the natural cancellation of several high order terms during the stability analysis. This allows the authors to present some of the simplest controllers proposed in scientific literature, but provided with formal stability proofs. These simple control laws will be of use to practitioners as they are robust with respect to numerical errors and noise amplification, and are provided with tuning guidelines. Energy-based Control of Electromechanical Systems is intended for both theorists and practitioners.

Therefore, the stability proofs are not based on abstract mathematical ideas but Lyapunov stability theory. Several interpretations of the proofs are given along the body of the book using simple energy ideas and the complete proofs are included in appendices. The complete modeling of each motor studied is also presented, allowing for a thorough understanding. Advances in Industrial Control reports and encourages the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control. This comprehensive text examines existing and emerging electrical drive technologies. The authors clearly define the most basic electrical drive concepts and go on to explain the most important details while maintaining a solid connection to the theory and design of the associated electrical machines.

Also including links to a number of industrial applications, the authors take their investigation of electrical drives beyond theory to examine a number of practical aspects of electrical drive control and application. Key features: * Provides a comprehensive summary of all aspects of controlled-speed electrical drive technology including control and operation. * Handling of electrical drives is solidly linked to the theory and design of the associated electrical machines. Added insight into problems and functions are illustrated with clearly understandable figures. * Offers an understanding of the main phenomena associated with electrical machine drives. * Considers the problem of bearing currents and voltage stresses of an electrical drive. * Includes up-to-date theory and design guidelines, taking into account the most recent advances. This book's rigorous coverage of theoretical principles and techniques makes for an excellent introduction to controlled-speed electrical drive technologies for Electrical Engineering MSc or

PhD students studying electrical drives. It also serves as an excellent reference for practicing electrical engineers looking to carry out design, analyses, and development of controlled-speed electrical drives. Offers Projects Such as a Computer Controlled Weather Station & a Text-to-Speech Synthesizer. Includes Schematics & Building Tips This book originates from the NATO Advanced Study Institute on Synthesis and Analysis Methods for Safety and Reliability Studies held at Sogesta Conference Centre, Urbino, Italy, 3-14 July 1978. The Institute, co-directed by Prof. E.J. Henley and Dr. G. Volta, was attended by 67 persons from twelve countries. The focus of the Institute was on theoretical and applied aspects of reliability and risk analysis methodologies. The Institute was composed of lectures, workshops and guided discussions. From the large quantity of written material that was used and produced during the Institute, a number of papers introducing the most relevant research results and trends in the

field have been selected. The papers have been edited, partly rewritten and rearranged in order to obtain in the end an integrated exposition of methods and techniques for reliability analysis and computation of complex systems. The book is divided into four sections which correspond to fairly homogeneous areas from a methodological point of view. Each section is preceded by an introduction prepared by the Editors which aims at helping the readers to put in perspective and appreciate the contribution of each paper to the subject of the section. IBM® Cloud Manager with OpenStack for z Systems™, V4.2 is an easy-to-use cloud management solution that serves as a control point for cloud managed resources based on the OpenStack Juno distribution. IBM Cloud Manager with OpenStack for z Systems, V4.2 can operate as a cloud management hub that can manage IBM z Systems™, IBM Power Systems™, and x86 resources from a central point of control. This IBM Redbooks® publication gives a broad

understanding of the architecture for IBM Cloud Manager with OpenStack for z Systems, V4.2, and how it can be implemented and deployed to support cloud services on the z Systems platform. This publication also helps you plan, install, configure, and use IBM Cloud Manager with OpenStack for z Systems, V4.2. It focuses on planning and design of your cloud environment on z Systems, as well as the installation and configuration definitions that are necessary to build and manage cloud resources under IBM z/VM®. This information is useful to IT architects and system administrators who plan for and install IBM Cloud Manager with OpenStack for z Systems. The reader is expected to have a good understanding of IBM z Systems™ hardware, IBM z/VM, Linux on z Systems, and cloud concepts. Autonomous systems are one of the most important trends for the next generation of control systems. This book is the first to transfer autonomous systems concepts and intelligent agents theory into the

control and operation environment of power systems. The focus of this book is to design a future control system architecture for electrical power systems, which copes with the changed requirements concerning complexity and flexibility and includes several applications for power systems. This book draws the whole circle from the theoretical and IT-concept of autonomous systems for power system control over the required knowledge-based methods and their capabilities to concrete applications within this field. Robotic Cell Manipulation introduces up-to-date research to realize this new theme of medical robotics. The book is organized in three levels: operation tools (e.g., optical tweezers, microneedles, dielectrophoresis, electromagnetic devices, and microfluidic chips), manipulation types (e.g., microinjection, transportation, rotation fusion, adhesion, separation, etc.), and potential medical applications (e.g., micro-surgery, biopsy, gene editing, cancer treatment, cell-cell interactions,

etc.). The technology involves different fields such as robotics, automation, imaging, microfluidics, mechanics, materials, biology and medical sciences. The book provides systematic knowledge on the subject, covering a wide range of basic concepts, theories, methodology, experiments, case studies and potential medical applications. It will enable readers to promptly conduct a systematic review of research and become an essential reference for many new and experienced researchers entering this unique field. Introduces the applications of robot-assisted manipulation tools in various cell manipulation tasks Defines many essential concepts in association with the robotic cell manipulation field, including manipulation strategy and manipulation types Introduces basic concepts and knowledge on various manipulation devices and tasks Describes some cutting-edge cell manipulation technologies and case studies Allows the reader to deepen their understanding of various technologies for both

fixed power supply installations of railway systems and for railway rolling stock This book explores the electric railway systems that play a crucial role in the mitigation of congestion and pollution caused by road traffic. It is divided into two parts: the first covering fixed power supply systems, and the second concerning the systems for railway rolling stock. In particular, after a historical introduction to the framework of technological solutions in current use, the authors investigate electrification systems for the power supply of rail vehicles, trams, and subways. Electrical Railway Transportation Systems explores the direct current systems used throughout the world for urban and suburban transport, which are also used in various countries for regional transport. It provides a study of alternating current systems, whether for power supply frequency or for special railway frequency, that are used around the world for the electrification of railway lines, long-distance lines, and high-speed lines. In

addition, this resource: Analyzes multiple railway systems from a theoretical and realizable vantage point, with particular regard to functionality, electromagnetic compatibility, and interferences with other electrical systems Studies electric traction railway vehicles, presenting various types of drives and auxiliary devices currently in circulation Discusses solutions employed to ensure interoperability of vehicles that run along lines powered by different systems (e.g., DC and AC, at different frequencies) Electrical Railway Transportation Systems is an ideal text for graduate students studying the subject as well as for industry professionals working in the field. The proceedings collect the latest research trends, methods and experimental results in the field of electrical and information technologies for rail transportation. The topics cover novel traction drive technologies of rail transportation, safety technology of rail transportation system, rail transportation information technology, rail

transportation operational management technology, rail transportation cutting-edge theory and technology etc. The proceedings can be a valuable reference work for researchers and graduate students working in rail transportation, electrical engineering and information technologies.

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