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Digital Control Engineering Digital Control Engineering Digital Control and State Variable Methods Modern Control System Theory Digital Twin Technology Digital Cont & State Var Met Linear and Non-Linear System Theory Control Systems Engineering Using Matlab Embedded Digital Control with Microcontrollers Control Systems—GATE, PSUS AND ES Examination System Design through Matlab®, Control Toolbox and Simulink® Applied Digital Control ADEX Optimized Adaptive Controllers and Systems Modern Control Systems Linear Systems Digital Control and State Variable Methods Introduction to Digital Microelectronic Circuits Signals and Systems with MATLAB Digital Watermarking Techniques in Curvelet and Ridgelet Domain Empowering India Through Digital Literacy (Vol. 2) Application of Flexible AC Transmission System Devices in Wind Energy Conversion Systems Computation and Communication Technologies True Digital Control Digital Systems and Applications Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations Digital Control Systems Implementation and Computational Techniques 100 Statistical Tests Novelties in Intelligent Digital Systems Piracy of Digital Content Digital Cities Roadmap E-Commerce and the Digital Economy Medical Diagnostic Techniques and Procedures Digital Remote Sensing Text and Tradition in Early Modern North India Digital Video Distribution in Broadband, Television, Mobile and Converged Networks Innovative Research in Attention Modeling and Computer Vision Applications Human-Computer Interaction. HCI Intelligent Multimodal Interaction Environments Digital Documents: Systems and Principles Digital Control Engineering Digital Information Systems and Services

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Modern Control Systems Sep 22 2021 CD-ROM includes simulations and other files related to control systems topics.

Modern Control System Theory Aug 02 2022 About the book... The book provides an integrated treatment of continuous-time and discrete-time systems for two courses at postgraduate level, or one course at undergraduate and one course at postgraduate level. It covers mainly two areas of modern control theory, namely; system theory, and multivariable and optimal control. The coverage of the former is quite exhaustive while that of latter is adequate with significant provision of the necessary topics that enables a research student to comprehend various technical papers. The stress is on interdisciplinary nature of the subject. Practical control problems from various engineering disciplines have been drawn to illustrate the potential concepts. Most of the theoretical results have been presented in a manner suitable for digital computer programming along with the necessary algorithms for numerical computations.

Human-Computer Interaction. HCI Intelligent Multimodal Interaction Environments Sep 30 2019 Here is the third of a four-volume set that constitutes the refereed proceedings of the 12th International Conference on Human-Computer Interaction, HCII 2007, held in Beijing, China, in July 2007, jointly with eight other thematically similar conferences. It covers multimodality and conversational dialogue; adaptive, intelligent and emotional user interfaces; gesture and eye gaze recognition; and interactive TV and media.

ADEX Optimized Adaptive Controllers and Systems Oct 24 2021 This book is a simple and didactic account of the developments and practical applications of predictive, adaptive predictive, and optimized adaptive control from a perspective of stability, including the latest methodology of adaptive predictive expert (ADEX) control. ADEX Optimized Adaptive Control Systems is divided into six parts, with exercises and real-time simulations provided for the reader as appropriate. The text begins with the conceptual and intuitive knowledge of the technology and derives the stability conditions to be verified by the driver block and the adaptive mechanism of the optimized adaptive controller to guaranty the desired control performance. The second and third parts present strategic considerations of predictive control and related adaptive systems necessary for the proper design of driver block and adaptive mechanism and thence their technical realization. The authors then proceed to detail the stability theory that supports predictive, adaptive predictive and optimized adaptive control methodologies. Benchmark applications of these methodologies (distillation column and pulp-factory bleaching plant) are treated next with a focus on practical implementation issues. The final part of the book describes ADEX platforms and illustrates their use in the design and implementation of optimized adaptive control systems to three different challenging-to-control industrial processes: waste-water treatment; sulfur recovery; and temperature control of superheated steam in coal-fired power generation. The presentation is completed by a number of appendices containing technical background associated with the main text including a manual for the ADEX COP platform developed by the first author to exploit the capabilities of adaptive predictive control in real plants. ADEX Optimized Adaptive Control Systems provides practicing process control engineers with a multivariable optimal control solution which is adaptive and resistant to perturbation and the effects of noise. Its pedagogical features also facilitate its use as a teaching tool for formal university and Internet-based open-education-type graduate courses in practical optimal adaptive control and for self-study.

System Design through Matlab®, Control Toolbox and Simulink® Dec 26 2021 MATLAB is a powerful, versatile, and interactive software for scientific and technical computations, including simulations. Specialized toolboxes provided with built-in functions are a special feature of MATLAB. This book aims at getting the reader started with computations and simulations in system engineering quickly and easily and then proceeds to build concepts for advanced computations and simulations that include the control and compensation of systems. Simulation through SIMULINK has also been described to allow the reader to get the feel of the real world situation.

Control Systems—GATE, PSUS AND ES Examination Jan 27 2022 Test Prep for Control Systems—GATE, PSUS AND ES Examination

Application of Flexible AC Transmission System Devices in Wind Energy Conversion Systems Feb 13 2021 This book presents information about the application of various flexible AC transmission system devices to wind energy conversion systems. Devices such as unified power flow controllers, superconducting magnetic energy storage and static synchronous compensators are covered in this book. Chapters detail features of the topology and basic control systems of each device. Additionally, case studies are presented where necessary to demonstrate practical applications. This book is a reference for students and technicians studying wind power and AC transmission systems in advanced engineering courses.

Embedded Digital Control with Microcontrollers Feb 25 2022 EMBEDDED DIGITAL CONTROL WITH MICROCONTROLLERS Explore a concise and practical introduction to implementation methods and the theory of digital control systems on microcontrollers Embedded Digital Control with Microcontrollers delivers expert instruction in digital control system implementation techniques on the widely used ARM Cortex-M microcontroller. The accomplished authors present the included information in three phases. First, they describe how to implement prototype digital control systems via the Python programming language in order to help the reader better understand theoretical digital control concepts. Second, the book offers readers direction on using the C programming language to implement digital control systems on actual microcontrollers. This will allow readers to solve real-life problems involving digital control, robotics, and mechatronics. Finally, readers will learn how to merge the theoretical and practical issues discussed in the book by implementing digital control systems in real-life applications. Throughout the book, the

application of digital control systems using the Python programming language ensures the reader can apply the theory contained within. Readers will also benefit from the inclusion of: A thorough introduction to the hardware used in the book, including STM32 Nucleo Development Boards and motor drive expansion boards An exploration of the software used in the book, including Python, MicroPython, and Mbed Practical discussions of digital control basics, including discrete-time signals, discrete-time systems, linear and time-invariant systems, and constant coefficient difference equations An examination of how to represent a continuous-time system in digital form, including analog-to-digital conversion and digital-to-analog conversion Perfect for undergraduate students in electrical engineering, Embedded Digital Control with Microcontrollers will also earn a place in the libraries of professional engineers and hobbyists working on digital control and robotics systems seeking a one-stop reference for digital control systems on microcontrollers.

Applied Digital Control Nov 24 2021 An essential core text, this volume develops theoretical foundations and explains how control systems work in real industrial situations. Several case histories assist students in visualizing applications. 1992 edition.

Medical Diagnostic Techniques and Procedures Mar 05 2020 This book focuses on important and evolving aspects of medical diagnostic techniques and procedures such as bioelectric phenomenon, medical imaging, biomedical signal processing, biomechanical techniques, microcirculatory techniques, optical techniques and modelling, and biomedical instrumentation covering sophisticated to low cost ideally suited for mass screening in rural areas.

Digital Documents: Systems and Principles Aug 29 2019 This volume contains the proceedings of two recent conferences in the field of electronic publishing and digital documents: - DDEP 2000, the 8th International Conference on Digital Documents and Electronic Publishing, the successor conference to the EP conference series; and - PODDP 2000, the 5th International Workshop on the Principles of Digital Document Processing. Both conferences were held at the Technische Universität München, Munich, Germany in September 2000. DDEP 2000 was the eighth in a biennial series of international conferences organized to promote the exchange of novel ideas concerning the computer production, manipulation and dissemination of documents. This conference series has attempted to reflect the evolving nature and usage of documents by treating digital documents and electronic publishing as a broad topic covering many aspects. These aspects have included document models, document representation and document dissemination, dynamic and hyperdocuments, document analysis and management, and wide-ranging applications. The papers presented at DDEP 2000 and in this volume reflect this broad view, and cover such diverse topics as hypermedia structure and design, multimedia authoring techniques and systems, document structure inference, typography, document management and adaptation, document collections and Petri nets. All papers were refereed by an international program committee.

Digital Information Systems and Services Jun 27 2019

100 Statistical Tests Aug 10 2020 Expanded and updated, the Third Edition of Gopal Kanji's best-selling resource on statistical tests covers all the most commonly used tests with information on how to calculate and interpret results with simple datasets. The Third Edition now includes: - a new introduction to statistical testing with information to guide even the non-statistician through the book quickly and easily - real-world explanations of how and when to use each test with examples drawn from wide range of disciplines - a useful Classification of Tests table - all the relevant statistical tables for checking critical values.

Innovative Research in Attention Modeling and Computer Vision Applications Oct 31 2019

Robotics and autonomous systems can aid disabled individuals in daily living or make a workplace more productive, but these tools are only as effective as the technology behind them. Robotic systems must be able to accurately identify and act upon elements in their environment to be effective in performing their duties. Innovative Research in Attention Modeling and Computer Vision Applications explores the latest research in image processing and pattern recognition for use in robotic real-time cryptography and surveillance applications. This book provides researchers, students, academicians, software designers, and application developers with next-generation insight into the use of computer vision technologies in a variety of industries and endeavors. This premier reference work includes chapters on topics ranging from biometric and facial recognition technologies, to digital image and video watermarking, among many others.

Signals and Systems with MATLAB May 19 2021 This book is primarily intended for junior-level students who take the courses on 'signals and systems'. It may be useful as a reference text for practicing engineers and scientists who want to acquire some of the concepts required for signal processing. The readers are assumed to know the basics about linear algebra, calculus (on complex numbers, differentiation, and integration), differential equations, Laplace R transform, and MATLAB . Some knowledge about circuit systems will be helpful. Knowledge in signals and systems is crucial to students majoring in Electrical Engineering. The main objective of this book is to make the readers prepared for studying advanced subjects on signal processing, communication, and control by covering from the basic concepts of signals and systems to manual-like introductions of how to use the MATLAB and Simulink tools for signal analysis and Iter design. The features of this book can be summarized as follows: 1. It not only introduces the four Fourier analysis tools, CTFS (continuous-time Fourier series), CTFT (continuous-time Fourier transform), DFT (discrete-time Fourier transform), and DTFS (discrete-time Fourier series), but also illuminates the relationship among them so that the readers can realize why only the DFT of the four tools is used for practical spectral analysis and why/how it differs from the other ones, and further, think about how to reduce the difference to get better information about the spectral characteristics of signals from the DFT analysis.

Digital Control Engineering Oct 04 2022

Linear Systems Aug 22 2021 This book provides an up-to-date information on a number of important topics in Linear Systems. Salient Features: " Introduces discrete systems including Z-transformations in the analysis of Linear Systems including synthesis." Emphasis on Fourier series analysis and applications." Fourier transforms and its applications." Network functions and synthesis with Laplace transforms and applications." Introduction to discrete-time control system." Z-Transformations and its applications." State space analysis of continuous and discrete-time analysis." Discrete transform analysis." A large number of solved and unsolved problems, review questions, MCQs." Index

Piracy of Digital Content Jun 07 2020 A study of digital piracy - the infringement of copyrighted content such as music, films, software, broadcasts, books, etc. - where the end product does not involve the use of hard media such as CDs or DVDs.

Digital Watermarking Techniques in Curvelet and Ridgelet Domain Apr 17 2021 This book describes the design, development, and testing of a novel digital watermarking technique for color images using Magic Square and Ridgelet transforms. The novel feature of the method is that it generates and uses multiple copies of the digital watermark. The book describes how the method was tested for embedding digital watermarks into color cover images, resulting in very high PSNR value and yielding comparable results with existing watermarking techniques. To reach this new method, eight different techniques are designed, developed and tested. First, the authors test two digital watermarking techniques based on encryption: Image Watermark Using Complete Complementary Code Technique (CCCT) and Image Watermarking Using CCC-Fast Walsh Hadamard Transform Technique (CCC-FWHTT). Next, four digital watermarking techniques based on curvelet transforms are discussed: Image Watermarking Using Curvelet Transform (WCT), Watermark Wavelets in Curvelets of Cover Image (WWCT), Resized Watermark into Curvelets of Cover Image (RWCT), and Resized Watermark Wavelets into Curvelets of Cover Image (RWWCT). Then, two final techniques are presented: Image Watermarking Based on Magic Square (MST) and Image watermarking based on Magic Square and Ridgelet Transform (MSRTT). Future research directions are explored in the final chapter. Designed for professionals and researchers in computer graphics and imaging, **Digital Watermarking Techniques in Curvelet and Ridgelet Domain** is also a useful tool for advanced-level students.

True Digital Control Dec 14 2020 True Digital Control: Statistical Modelling and Non-Minimal State Space Design develops a true digital control design philosophy that encompasses data-based model identification, through to control algorithm design, robustness evaluation and implementation. With a heritage from both classical and modern control system synthesis, this book is supported by detailed practical examples based on the authors' research into environmental, mechatronic and robotics systems. Treatment of both statistical modelling and control design under one cover is unusual and highlights the important connections between these disciplines. Starting from the ubiquitous proportional-integral controller, and with essential concepts such as pole

assignment introduced using straightforward algebra and block diagrams, this book addresses the needs of those students, researchers and engineers, who would like to advance their knowledge of control theory and practice into the state space domain; and academics who are interested to learn more about non-minimal state variable feedback control systems. Such non-minimal state feedback is utilised as a unifying framework for generalised digital control system design. This approach provides a gentle learning curve, from which potentially difficult topics, such as optimal, stochastic and multivariable control, can be introduced and assimilated in an interesting and straightforward manner. Key features: Covers both system identification and control system design in a unified manner Includes practical design case studies and simulation examples Considers recent research into time-variable and state-dependent parameter modelling and control, essential elements of adaptive and nonlinear control system design, and the delta-operator (the discrete-time equivalent of the differential operator) systems Accompanied by a website hosting MATLAB examples True Digital Control: Statistical Modelling and Non-Minimal State Space Design is a comprehensive and practical guide for students and professionals who wish to further their knowledge in the areas of modern control and system identification.

Control Systems Engineering Using Matlab Mar 29 2022 Control Systems Engineering using MATLAB provides students with a concise introduction to the basic concepts in automatic control systems and the various methods of solving its problems. Designed to comfortably cover two academic semesters, the style and form of the book makes it easily comprehensible for all engineering disciplines that have control system courses in their curricula. The solutions to the problems are programmed using MATLAB 6.0 for which the simulated results are provided. The MATLAB Control Systems Toolbox is provided in the Appendix for easy reference. The book would be useful as a textbook to undergraduate students and as quick reference for higher studies.

Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations Oct 12 2020 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems, missile design, space technology, satellites, intercontinental ballistic missiles, and space security. While there are many existing selections of systems engineering and risk management textbooks, there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions. With this book Dr. Anna M. Doro-on rectifies the current imbalance. She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies. The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats. The book is designed for systems engineers in practice, political risk professionals, managers, policy makers, engineers in other engineering fields, scientists, decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations.

Empowering India Through Digital Literacy (Vol. 2) Mar 17 2021

Linear and Non-Linear System Theory Apr 29 2022 Linear and Non-Linear System Theory focuses on the basics of linear and non-linear systems, optimal control and optimal estimation with an objective to understand the basics of state space approach linear and non-linear systems and its analysis thereof. Divided into eight chapters, materials cover an introduction to the advanced topics in the field of linear and non-linear systems, optimal control and estimation supported by mathematical tools, detailed case studies and numerical and exercise problems. This book is aimed at senior undergraduate and graduate students in electrical, instrumentation, electronics, chemical, control engineering and other allied branches of engineering. Features Covers both linear and non-linear system theory Explores state feedback control and state estimator concepts Discusses non-linear systems and phase plane analysis Includes non-linear system stability and bifurcation behaviour Elaborates optimal control and estimation

Digital Video Distribution in Broadband, Television, Mobile and Converged Networks Dec 02 2019 A unique treatment of digital video distribution technology in a business context, Digital Video Distribution in Broadband, Television, Mobile and Converged Networks explores a range of diverse

topics within the field through a combination of theory and practice to provide the best possible insight and exposure. The theoretical foundations inside assist a fuller understanding of the technologies used in practice, while real-world examples are correspondingly used to emphasize the applicability of theory in the commercial world. Fully illustrated throughout to help explain the fundamental concepts of digital media distribution, *Digital Video Distribution in Broadband, Television, Mobile and Converged Networks* is divided into three major parts starting initially with the basic industry trends that have been driving the adoption of video and making its distribution over the Internet an economically viable solution. This is followed with detail descriptions of challenges and solutions in distributing video in 'open' networks such as the Internet. The final part focuses on the challenges and solutions for distributing video in 'closed' networks such as the managed network of Telcos. Provides an A to Z of digital video distribution featuring technology, business, research, products and case studies. Features research topics exploring P2P Streaming, Digital Video Distribution over Disruption-Tolerant Networks and Scalable Video on Demand. Includes real world product descriptions on Transcoders, such as Rhozet, and IPTV Quality of Service Monitoring product, such as Ineoquest.

Text and Tradition in Early Modern North India Jan 03 2020 Early modern India—a period extending from the fifteenth to the late eighteenth century—saw dramatic cultural, religious, and political changes as it went from Sultanate to Mughal to early colonial rule. Witness to the rise of multiple literary and devotional traditions, this period was characterized by immense political energy and cultural vibrancy. *Text and Tradition in Early Modern North India* brings together recent scholarship on the languages, literatures, and religious traditions of northern India. It focuses on the rise of vernacular languages as vehicles for literary expression and historical and religious self-assertion, and particularly attends to ways in which these regional spoken languages connect with each other and their cosmopolitan counterparts. Hindu, Muslim, and Jain idioms emerge in new ways, and the effect of the volume as a whole is to show that they belong to a single complex cultural conversation.

Digital Control and State Variable Methods Sep 03 2022

Digital Control Engineering Jul 29 2019 Focusing on the use of microprocessor technology in process control, this book offers a clear presentation of digital control concepts, always keeping their practical use in mind. By fortifying standard coverage of the subject with a computer-aided design package and practical case studies, this book serves as a valuable hands-on reference and text. Case studies include a microprocessor-based position control system, a microprocessor-based temperature control system and the microprocessor control of a manipulator arm. Chapter coverage includes sampling and reconstruction, transform design of digital controls, state space analysis of sampled-data systems, stepping motors and their interfacing to microprocessors, and more.

Digital Twin Technology Jul 01 2022 Most of the business sectors consider the Digital Twin concept as the next big thing in the industry. A current state analysis of their digital counterparts helps in the prediction of the future of physical assets. Organizations obtain better insights on their product performance through the implementation of Digital Twins, and the applications of the technology are frequently in sectors such as manufacturing, automobile, retail, health care, smart cities, industrial IoT, etc. This book explores the latest developments and covers the significant challenges, issues, and advances in Digital Twin Technology. It will be an essential resource for anybody involved in related industries, as well as anybody interested in learning more about this nascent technology. This book includes: The future, present, and past of Digital Twin Technology. Digital twin technologies across the Internet of Drones, which developed various perceptive and autonomous capabilities, towards different control strategies such as object detection, navigation, security, collision avoidance, and backup. These approaches help to deal with the expansive growth of big data solutions. The recent digital twin concept in agriculture, which offers the vertical framing by IoT installation development to enhance the problematic food supply situation. It also allows for significant energy savings practices. It is highly required to overcome those challenges in developing advanced imaging methods of disease detection & prediction to achieve more accuracy in large land areas of crops. The welfare of upcoming archetypes such as digitalization in forensic analysis. The ideas of digital twin have arisen to style the corporeal entity and associated facts reachable software and customers over digital

platforms. Wind catchers as earth building: Digital Twins vs. green sustainable architecture.

Digital Control Engineering Nov 05 2022

Digital Control Systems Implementation and Computational Techniques Sep 10 2020 Praise for the Series: "This book will be a useful reference to control engineers and researchers. The papers contained cover well the recent advances in the field of modern control theory." --IEEE Group Correspondence "This book will help all those researchers who valiantly try to keep abreast of what is new in the theory and practice of optimal control." --Control

Digital Control and State Variable Methods Jul 21 2021 The third edition of Digital Control and State Variable Methods presents control theory relevant to the analysis and design of computer-control systems. Meant for the undergraduate and postgraduate courses on advanced control systems, this text provides an up-to-date treatment of digital control, state variable analysis and design, and nonlinear control.

Digital Cont & State Var Met May 31 2022

Computation and Communication Technologies Jan 15 2021 This conference proceedings summarizes invited publications from the two IDES (Institute of Doctors Engineers and Scientists) International conferences, both held in Bangalore/ India.

Digital Cities Roadmap May 07 2020 DIGITAL CITIES ROADMAP This book details applications of technology to efficient digital city infrastructure and its planning, including smart buildings. Rapid urbanization, demographic changes, environmental changes, and new technologies are changing the views of urban leaders on sustainability, as well as creating and providing public services to tackle these new dynamics. Sustainable development is an objective by which the processes of planning, implementing projects, and development is aimed at meeting the needs of modern communities without compromising the potential of future generations. The advent of Smart Cities is the answer to these problems. Digital Cities Roadmap provides an in-depth analysis of design technologies that lay a solid foundation for sustainable buildings. The book also highlights smart automation technologies that help save energy, as well as various performance indicators needed to make construction easier. The book aims to create a strong research community, to have a deep understanding and the latest knowledge in the field of energy and comfort, to offer solid ideas in the nearby future for sustainable and resilient buildings. These buildings will help the city grow as a smart city. The smart city has also a focus on low energy consumption, renewable energy, and a small carbon footprint. Audience The information provided in this book will be of value to researchers, academicians and industry professionals interested in IoT-based architecture and sustainable buildings, energy efficiency and various tools and methods used to develop green technologies for construction in smart cities.

Digital Systems and Applications Nov 12 2020 New design architectures in computer systems have surpassed industry expectations. Limits, which were once thought of as fundamental, have now been broken. Digital Systems and Applications details these innovations in systems design as well as cutting-edge applications that are emerging to take advantage of the fields increasingly sophisticated capabilities. This book features new chapters on parallelizing iterative heuristics, stream and wireless processors, and lightweight embedded systems. This fundamental text— Provides a clear focus on computer systems, architecture, and applications Takes a top-level view of system organization before moving on to architectural and organizational concepts such as superscalar and vector processor, VLIW architecture, as well as new trends in multithreading and multiprocessing. includes an entire section dedicated to embedded systems and their applications Discusses topics such as digital signal processing applications, circuit implementation aspects, parallel I/O algorithms, and operating systems Concludes with a look at new and future directions in computing Features articles that describe diverse aspects of computer usage and potentials for use Details implementation and performance-enhancing techniques such as branch prediction, register renaming, and virtual memory Includes a section on new directions in computing and their penetration into many new fields and aspects of our daily lives

Novelties in Intelligent Digital Systems Jul 09 2020 Artificial intelligence and intelligent digital systems have become indispensable to many areas of modern life. This book presents the proceedings of the 1st International Conference on Novelties in Intelligent Digital Systems (NIDS2021), held in Athens, Greece, from 30 September to 1 October 2021. The conference took place as a virtual event due to COVID-19 restrictions. The NIDS conference lays special emphasis

on the novelties of intelligent systems and on the interdisciplinary research which enables, supports, and enhances Artificial Intelligence (AI) in software development. It promotes high-quality research, creating a forum for the exploration of challenges and new advances in AI, and addresses experts, researchers and scholars in the fields of artificial and computational intelligence in systems and in computer sciences in general, enabling them to learn more about pertinent, strongly related and mutually complementary fields. The conference promotes an exchange of ideas, reinforcing and expanding the network of researchers, academics, and market representatives. The 30 accepted papers included here have each been reviewed rigorously by two or three reviewers through a double-blind process which reflects the commitment of the IIS academic community to make NIDS a top-flight, selective and high-quality conference. They are grouped in 6 sections, and cover the topics of Learning; Extended Reality; Data Mining and Machine Learning; Health and Environment; Brain Assessment and Reasoning; and Computer Vision Describing some very significant research and reflecting many interesting new ideas, the book will be of interest to all those working in the field.

E-Commerce and the Digital Economy Apr 05 2020 This volume in the "Advances in Management Information Systems" series offers a state-of-the-art survey of information systems research on electronic commerce. Featuring chapters by leading scholars and industry professionals, it provides the framework for understanding the business trends, emerging opportunities, and barriers to overcome in the rapid developments taking place in electronic business and the digital economy. Researchers, students, and practitioners - anyone interested in the current issues and future direction of electronic commerce, especially from the standpoint of information systems and information technology - will find this book to be an authoritative source of cutting-edge information. The volume is divided into four parts: Part I covers the fundamental issues of information technology standards and the transformation of industry structure; Part II focuses on B2B commerce; Part III investigates the management of mobile and IT infrastructure; and Part IV includes trust, security, and legal issues that undergird the success of e-commerce initiatives.

Digital Remote Sensing Feb 02 2020

Introduction to Digital Microelectronic Circuits Jun 19 2021 Of all the new technologies that have evolved recently, integrated circuit technology is the one that continues to experience phenomenal growth. The vast amount of material arising from innovative circuit designs and newer device technologies requires that the circuit analysis aspects of digital electronics be covered in a first course, separate from device design and chip layout. Consequently, Introduction to Digital Microelectronic Circuits emphasizes the analysis and performance comparison of different gate-level logic circuits and presents design examples based on logic-level requirements. It provides an introduction to the analysis of digital electronic circuits using discrete and integrated circuits.