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#shorts #short

Management Information Systems: A Concise Study 2Nd Ed.

Handbook of Research on Technical, Privacy, and Security Challenges in a Modern World

Soft Computing Applications for Renewable Energy and Energy Efficiency

Bovine Viral Diarrhea Virus

Transactions on Large-Scale Data- and Knowledge-Centered Systems XX

Automation and Robotics: Introduction; 2. Robot elements; 3. Robot coordinate systems and manipulator kinematics; 4. Robot control; 5. Robot programming; 6.

Robot applications; 7. Automation; index

E-Business and Distributed Systems Handbook

Renewable and Alternative Energy: Concepts, Methodologies, Tools, and Applications

Micro Irrigation Management

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Information Diffusion Management and Knowledge Sharing: Breakthroughs in Research and Practice

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Feedback Control Systems

Green Information and Communication Systems for a Sustainable Future

who added valuable contribution to this first joint working conference. Paul Dowland X. Sean Wang December 2005 Contents Preface vii Session 1 - Security Standards Information Security Standards: Adoption Drivers (Invited Paper) 1 JEAN-NOEL EZINGEARD AND DAVID BIRCHALL Data Quality Dimensions for Information Systems Security: A Theoretical Exposition (Invited Paper) 21 GURVIRENDER TEJAY, GURPREET DHILLON, AND AMITA GOYAL CHIN From XML to RDF: Syntax, Semantics, Security, and Integrity (Invited Paper) 41 C. FARKAS, V. GowADiA, A. JAIN, AND D.

Handbook of Research on Technical, Privacy, and Security Challenges in a Modern World IGI Global

The recent technological developments

in the field of engineering have introduced exotic and complicated manufacturing systems and new products in the market. The intention of writing this book is to provide the students an insight into the new innovations with enough depth and breadth. The book is intended to provide a comprehensive knowledge in the fields of industrial automation, robotics and other related systems. Separate chapters have been devoted to introduction to robotics, elements of robotics, kinematics, robotic control, programming and robot applications. The short and objective type questions have been arranged chapter wise with answers provided. The students of both undergraduate and postgraduate colleges will find the book quite simple

and informative (preface from the authors).

Soft Computing Applications for Renewable Energy and Energy Efficiency Springer Nature

Micro Irrigation Management: Technological Advances and Their Applications, the fifth book in the Innovations and Challenges in Micro Irrigation book series, is a valuable reference volume on micro irrigation and water management for professional training institutes, technical agricultural centers, irrigation centers, agricultural extension service, and other agencies who work with micro irrigation programs. With an international focus, this new book focuses on applications of solar energy in micro irrigation and other important technological advances. It

includes case studies and illustrative examples on drip irrigation design.

Bovine Viral Diarrhea Virus Goyal Brothers Prakashan

In business, mistakes and errors will inevitably occur. As such, organizations must be constantly alert and ready to meet challenges head-on. Risk and Contingency Management: Breakthroughs in Research and Practice is a comprehensive reference source for the latest scholarly material on trends and techniques for the prediction and evaluation of financial risks and how to diminish their effect. Highlighting a range of pertinent topics such as project management, risk auditing and reporting, and resource management, this multi-volume book is ideally designed for researchers, academics,

professionals, managers, students, and practitioners interested in risk and contingency management.

TRANSACTIONS ON LARGE-SCALE DATA- AND KNOWLEDGE-CENTERED SYSTEMS XX

IGI Global

Open loop and closed loop systems, Servomechanism, Basic structure of a feedback control system. Dynamic Models and Responses Dynamic model of an RLC network, State variable model, Impulse response model, Transfer function model, Standard test/disturbance signals and their models, Transfer function model and dynamic response of a second order electrical system. Control System Components Basic units of feedback

control system, Reduction of system block diagrams, Signal flow graph, Mason's gain rule, Block diagram reduction using Mason's gain rule, Operational amplifier used as an error detector, Servo potentiometer, DC and AC servomotors, Tachogenerator, Stepper motor, Synchros, Block diagram model of a typical control system using simplified sub-system, Transfer function blocks. Feedback Control System Characteristics Stability, Sensitivity, Disturbance rejection, Steady state accuracy, Transient and steady state responses of a second order system, Effect of additional zeros and poles, Desired closed loop pole locations and dominant poles, Steady state error constants, System type numbers and error compensation. System Stability

Analysis and Compensator Design
 System stability bounds, Routh stability criterion, Relative stability and range of stability, Root locus concept, System characteristic equation, Plotting root loci, Design of cascade lag-lead compensation, Minor loop (rate) feedback compensation. Nyquist Criterion and Stability Margins
 Nyquist stability criteria, Nyquist plot, Gain and phase margins, Bode plot of magnitude and phase and determination of stability margins.
 Feedback System Performance
 Performance specifications in frequency domain, Correlation between frequency domain and time domain specifications, Constant - M circles, Nichols chart, Stability margins from sensitivity function. Design of cascade lag-lead compensation using

Bode plot. Minor loop (rate) feedback compensation.

Automation and Robotics: Introduction; 2. Robot elements; 3. Robot coordinate systems and manipulator kinematics; 4. Robot control; 5. Robot programming; 6. Robot applications; 7. Automation; index CRC Press

The book aims to showcase the basics of both IoT and Blockchain for beginners as well as their integration and challenge discussions for existing practitioner. It aims to develop understanding of the role of blockchain in fostering security. The objective of this book is to initiate conversations among technologists, engineers, scientists, and clinicians to synergize their efforts in producing low-cost, high-performance, highly efficient,

deployable IoT systems. It presents a stepwise discussion, exhaustive literature survey, rigorous experimental analysis and discussions to demonstrate the usage of blockchain technology for securing communications. The book evaluates, investigate, analyze and outline a set of security challenges that needs to be addressed in the near future. The book is designed to be the first reference choice at research and development centers, academic institutions, university libraries and any institutions interested in exploring blockchain. UG/PG students, PhD Scholars of this fields, industry technologists, young entrepreneurs and researchers working in the field of blockchain technology are the primary audience of this book.

E-BUSINESS AND DISTRIBUTED SYSTEMS HANDBOOK

BoD – Books on Demand

The LNCS journal Transactions on Large-Scale Data- and Knowledge-Centered Systems focuses on data management, knowledge discovery, and knowledge processing, which are core and hot topics in computer science. Since the 1990s, the Internet has become the main driving force behind application development in all domains. An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data- and knowledge-management systems from centralized systems to decentralized systems enabling large-scale distributed applications providing

high scalability. Current decentralized systems still focus on data and knowledge as their main resource. Feasibility of these systems relies basically on P2P (peer-to-peer) techniques and the support of agent systems with scaling and decentralized control. Synergy between grids, P2P systems, and agent technologies is the key to data- and knowledge-centered systems in large-scale environments. This, the 20th issue of Transactions on Large-Scale Data- and Knowledge-Centered Systems, presents a representative and useful selection of articles covering a wide range of important topics in the domain of advanced techniques for big data management. Big data has become a popular term, used to describe the

exponential growth and availability of data. The recent radical expansion and integration of computation, networking, digital devices, and data storage has provided a robust platform for the explosion in big data, as well as being the means by which big data are generated, processed, shared, and analyzed. In general, data are only useful if meaning and value can be extracted from them. Big data discovery enables data scientists and other analysts to uncover patterns and correlations through analysis of large volumes of data of diverse types. Insights gleaned from big data discovery can provide businesses with significant competitive advantages, leading to more successful marketing campaigns, decreased customer churn, and reduced

loss from fraud. In practice, the growing demand for large-scale data processing and data analysis applications has spurred the development of novel solutions from both industry and academia.

Renewable and Alternative Energy: Concepts, Methodologies, Tools, and Applications IGI Global

This book focuses primarily on both technical and business aspects needed to select, design, develop and deploy control application (or product) successfully for multiple components in building systems. Designing and deploying a control application require multiple steps such as sensing, system dynamics modelling, algorithms, and testing. This may involve choosing an appropriate methodology and technique

at multiple stages during the development process. Understanding the pros and cons of such techniques, most importantly being aware of practically possible approaches in the entire ecosystem, is critical in choosing the best framework and system application for different parts of building systems. Providing a wide overview of the state-of art in controls and building systems, providing guidance on developing an end-to-end system in relation to business fundamentals (distribution channels, stakeholders, marketing, supply-chain and financial management), the book is ideal for fourth-year control/mechanical/electrical engineering undergraduates, graduate students, and practitioners including business leaders concerned with smart

building technology.

MICRO IRRIGATION MANAGEMENT

IGI Global

The three-volume set LNCS 10624, 10625, 10626 constitutes the refereed proceedings of the 23rd International Conference on the Theory and Applications of Cryptology and Information Security, ASIACRYPT 2017, held in Hong Kong, China, in December 2017. The 65 revised full papers were carefully selected from 243 submissions. They are organized in topical sections on Post-Quantum Cryptography; Symmetric Key Cryptanalysis; Lattices; Homomorphic Encryptions; Access Control; Oblivious Protocols; Side Channel Analysis; Pairing-based Protocols; Quantum Algorithms; Elliptic

Curves; Block Chains; Multi-Party Protocols; Operating Modes Security Proofs; Cryptographic Protocols; Foundations; Zero-Knowledge Proofs; and Symmetric Key Designs.

SUSTAINABILITY

Springer Science & Business Media Technological advances, although beneficial and progressive, can lead to vulnerabilities in system networks and security. While researchers attempt to find solutions, negative uses of technology continue to create new security threats to users. New Threats and Countermeasures in Digital Crime and Cyber Terrorism brings together research-based chapters and case studies on security techniques and current methods being used to identify

and overcome technological vulnerabilities with an emphasis on security issues in mobile computing and online activities. This book is an essential reference source for researchers, university academics, computing professionals, and upper-level students interested in the techniques, laws, and training initiatives currently being implemented and adapted for secure computing.

Information Diffusion Management and Knowledge Sharing: Breakthroughs in Research and Practice CRC Press

Computer has firmly carved its place in the human society. Computer makes our job easier and has reshaped our imagination. The world of technology and computer systems is continuously

evolving and has touched virtually each and every aspect of our lives. The Computer Science Success series is based on Windows 10 and Office 2016. This series is specially designed for providing a vast theoretical and practical knowledge of computers to the students. It is the most comprehensive series in which activity and tool-based approach is incorporated. Each chapter in the book begins with an engaging introduction followed by an activity-based approach to learning, which is supported with ample number of diagrams, pictures and relevant screenshots. The exercises in each chapter have sufficient practical and activity-based questions. Lots of interesting software like Office 2016 (like Word, Excel and PowerPoint) and MSWLogo have been taught in these

books. Internet is also covered. Core features of Computer Science Success series (for Classes 3 to 5) are:

- Learning Objectives: Describes the goals required to be achieved by the end of the chapter.
- Chapter Contents: Concepts are explained to strengthen the knowledge base of the students.
- Know More: Gives extra and useful information on the topic being covered.
- Fact: Includes historical facts about the topic being covered.
- Top Tips: Gives a shortcut method of the topic being covered.
- Activity: Encourages the students to explore some real life use of the topic being covered.
- Summary: Gives a brief summary of the topics being taught in the chapter.
- Exercises: Includes a variety of questions to evaluate the theoretical knowledge of

the students.

- Activity Zone: Includes the following activities:
 - v Puzzle: Includes crossword or mazes to focus on some important terms included in the chapter.
 - v Lab Session: Gives instructions to the students to perform various tasks in the lab.
 - v Group Discussion: Encourages the students to have discussion on various topics.
 - v Project Work: Assigns various tasks to the students to apply the concepts already learnt.
- Teacher's Notes: Gives suggestions to the teachers to make the learning process better.
- Periodic Tests: A total of four periodic tests are included to evaluate the knowledge of the students.
- Model Test Papers: Two Model Test Papers, covering questions from all the chapters are included in the middle and towards the end of the book.

□ Project Work: A set of projects has been designed to challenge the students to apply the concepts learnt. □ Cyber Olympiad: Gives a sample Cyber Olympiad question paper to test the knowledge of the students. □ Practice Assignments(in a separate section): Includes both Practice Assignments and Quizzes, that helps the students to understand the topics given in the chapter thoroughly. Goyal Brothers Prakashan

Enter – A Complete Course in Computer Science Book for Class 7
Springer

For almost 60 years, continual research on the subject of Bovine Viral Diarrhea (BVD) has raised as many questions as that research has answered. This common disease continues to cause

sickness, death, abortion and fetal anomalies despite the millions of vaccination doses used each year to prevent its spread. Written by international experts on the subject of the BVD virus, BVDV: Diagnosis, Management and Control includes the latest information on BVD and outlines methods of diagnosis, management and control. Researchers, academics, and large animal practitioners will find this book an invaluable and irreplaceable resource for understanding and controlling outbreaks of BVD.

Computer Science Success For Class 3
IGI Global

This book surveys the well-known results and also presents a series of original results on the mathematical modeling of social networks, focusing on models of

informational influence, control and confrontation. Online social networks are intended for communication, opinion exchange and information acquisition for their members, but recently, online social networks have been intensively used as the objects and means of informational control and an arena of informational confrontation. They have become a powerful informational influence tool, particularly for the manipulation of individuals, social groups and society as a whole, as well as a battlefield of information warfare (cyberwars). This book aimed at undergraduate and postgraduate university students as well as experts in information technology and modeling of social systems and processes.

FEEDBACK CONTROL SYSTEMS

IGI Global

This book explains the concept of data centers, including data collection, public parking systems, smart metering, and sanitizer dispensers. Electric urban transport systems and effective electric distribution in smart cities are discussed as well. The extensive role of power electronics in smart building applications, such as electric vehicles, rooftop terracing, and renewable energy integration, is included. Case studies on automation in smart homes and commercial and official buildings are elaborated. This book describes the complete implication of smart buildings via industrial, commercial, and community platforms. FEATURES

Systematically defines energy-efficient buildings employing power consumption optimization techniques with the inclusion of renewable energy sources Covers data centers and cybersecurity with excellent data storage features for smart buildings Includes systematic and detailed strategies for building air-conditioning and lighting Details smart building security propulsion This book is aimed at graduate students, researchers, and professionals in building systems engineering, architectural engineering, and electrical engineering.

Green Information and Communication Systems for a Sustainable Future

Springer Nature

In the ever-evolving telecommunication industry, smart mobile computing

devices have become increasingly affordable and powerful, leading to significant growth in the number of advanced mobile users and their bandwidth demands. Due to this increasing need, the next generation of wireless networks needs to enable solutions to bring together broadband, broadcast, and cellular technologies for global consumers. Paving the Way for 5G Through the Convergence of Wireless Systems provides innovative insights into wireless networks and cellular coexisting solutions that aim at paving the way towards 5G. Through examining data offloading, cellular technologies, and multi-edge computing, it addresses coexistence problems at different levels (i.e., physical characteristics, open access, technology-neutrality, economic

characteristics, healthcare, education, energy, etc.), influencing networks to provide solutions for next generation wireless networks. Bridging research and practical solutions, this comprehensive reference source is ideally designed for graduate-level students, IT professionals and technicians, engineers, academicians, and researchers.

PROCEEDINGS OF FOURTH DOCTORAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE

Principles Of Control Systems Open loop and closed loop systems, Servomechanism, Basic structure of a feedback control system. Dynamic Models and Responses Dynamic model of an RLC network, State variable model, Impulse response model, Transfer

function model, Standard test/disturbance signals and their models, Transfer function model and dynamic response of a second order electrical system. Control System Components Basic units of feedback control system, Reduction of system block diagrams, Signal flow graph, Mason's gain rule, Block diagram reduction using Mason's gain rule, Operational amplifier used as an error detector, Servo potentiometer, DC and AC servomotors, Tachogenerator, Stepper motor, Synchros, Block diagram model of a typical control system using simplified sub-system, Transfer function blocks. Feedback Control System Characteristics Stability, Sensitivity, Disturbance rejection, Steady state accuracy, Transient and steady state

responses of a second order system,
 Effect of additional zeros and poles,
 Desired closed loop pole locations and
 dominant poles, Steady state error
 constants, System type numbers and
 error compensation. System Stability
 Analysis and Compensator
 Design System stability bounds, Routh
 stability criterion, Relative stability and
 range of stability, Root locus concept,
 System characteristic equation, Plotting
 root loci, Design of cascade lag-lead
 compensation, Minor loop (rate)
 feedback compensation. Nyquist Criterion
 and Stability Margins Nyquist stability
 criteria, Nyquist plot, Gain and phase
 margins, Bode plot of magnitude and
 phase and determination of stability
 margins. Feedback System
 Performance Performance specifications

in frequency domain, Correlation
 between frequency domain and time
 domain specifications, Constant - M
 circles, Nichols chart, Stability margins
 from sensitivity function. Design of
 cascade lag-lead compensation using
 Bode plot. Minor loop (rate) feedback
 compensation. Control System
 Engineering
 Linear control systems, Definitions &
 elements of control system, Open loop
 and closed loop control system,
 Feedback & feedforward control system,
 Linear & nonlinear control
 system. Transfer function by block
 diagram reduction technique & by signal
 flow graph analysis using Mason's gain
 formula. Time domain analysis control
 system, Steady state performance
 specifications. Time domain analysis :

Transient response of first & second order system, For various test signals, Steady state performance specifications. Stability of control system, Determination of stability of control system, Routh Hurwitz criteria, Root locus technique. Frequency response of control system, Co-relation between time domain & frequency domain specifications, Bode plots, Calculation of phase margin and gain margin, Performance of lead and lag network in frequency domain analysis. Mapping theorem, Determination of stability using Nyquist's criterion. State variable representation of control system (SISO, MIMO), Conversion of state variable into transfer function & vice-versa, Solution of state equ., State transition matrix. Control system components, Error

detectors, Potentiometers, Synchros, Actuators, Servomotors, Tacho generators, AC & DC servomotors, Stepper motors, Transfer function of AC, DC servosystems.

ACTIVE FLOW AND COMBUSTION CONTROL 2021

IGI Global

This book features high-quality research papers presented at Fourth Doctoral Symposium on Computational Intelligence (DoSCI 2023), organized by Institute of Engineering and Technology (IET), AKTU, Lucknow, India, on March 3, 2023. This book discusses the topics such as computational intelligence, artificial intelligence, deep learning, evolutionary algorithms, swarm intelligence, fuzzy sets and vague sets,

rough set theoretic approaches, quantum-inspired computational intelligence, hybrid computational intelligence, machine learning, computer vision, soft computing, distributed computing, parallel and grid computing, cloud computing, high-performance computing, biomedical computing, and decision support and decision making

SMART BUILDINGS DIGITALIZATION, TWO VOLUME SET

John Wiley & Sons

As the human population expands and natural resources become depleted, it becomes necessary to explore other sources for energy consumption and usage. *Renewable and Alternative Energy: Concepts, Methodologies, Tools, and Applications* provides a

comprehensive overview of emerging perspectives and innovations for alternative energy sources. Highlighting relevant concepts on energy efficiency, current technologies, and ongoing industry trends, this is an ideal reference source for academics, practitioners, professionals, and upper-level students interested in the latest research on renewable energy.

Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care
IGI Global

This module of the handbook discusses the management and security issues. Topics include: Management of e-Business, IS planning, security management, basic cryptography, PKI, security architectures, security solutions

for wireless and wireline networks, web and application security, system assurance methodology, network and systems management platforms.

Big Data Analytics CRC Press

This book constitutes the refereed proceedings of the 7th International Conference on Big Data analytics, BDA 2019, held in Ahmedabad, India, in December 2019. The 25 papers

presented in this volume were carefully reviewed and selected from 53 submissions. The papers are organized in topical sections named: big data analytics: vision and perspectives; search and information extraction; predictive analytics in medical and agricultural domains; graph analytics; pattern mining; and machine learning.

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