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Tobias Bleicker



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Rsa Encryption and Decryption Using Matlab, 2004 Cyber-Physical Systems Nonita Sharma, L K Awasthi, Monika Mangla, K P Sharma, Rohit Kumar, 2022-04-24 *Cyber Physical Systems A Comprehensive Guide* explores the complete system perspective underlying theories modelling and the applications of Cyber Physical Systems CPS It aims to cover all topics ranging from discussion of rudiments of the system efficient management to recent research challenges and issues Editors aim to present the book in a self sufficient manner and to achieve this the book has been edited to include all the aspects of CPS The book focuses on the concept map of CPS including latest technological interventions issues challenges and the integration of CPS with IoT Big Data Analytics This aims to bring together unique contributions on cyber physical systems research and education with applications in industrial agriculture and medical domains The main aim of the book is to provide a roadmap to the latest advancements to provide optimal solutions in the field of CPS Features Coverage of rudiments of the subject Discussion of recent advancements in the associated field Considers an audience of diverse domains Suitable for students both UG and PG level and researchers in the field of CPS This book aims to present the emergence of Cyber Physical Systems in response to revolutionary advancements in IoT While discussing the associated challenges it also endeavors to devise efficient models which are competent to address these challenges This book aims to cater to researchers and academicians working in the related field of CPS **Digital Technologies and Applications** Saad Motahhir, Badre Bossoufi, 2021-06-26 This book gathers selected research papers presented at the First International Conference on Digital Technologies and Applications ICDTA 21 held at Sidi Mohamed Ben Abdellah University Fez Morocco on 29-30 January 2021 highlighting the latest innovations in digital technologies as artificial intelligence Internet of things embedded systems network technology information processing and their applications in several areas such as hybrid vehicles renewable energy robotic and COVID 19 The respective papers encourage and inspire researchers industry professionals and policymakers to put these methods into practice *Data Analytics for Smart Grids Applications—A Key to Smart City Development* Devendra Kumar Sharma, Rohit Sharma, Gwanggil Jeon, Raghvendra Kumar, 2023-11-29 This book introduces big data analytics and corresponding applications in smart grids The characterizations of big data smart grids as well as a huge amount of data collection are first discussed as a prelude to illustrating the motivation and potential advantages of implementing advanced data analytics in smart grids Basic concepts and the procedures of typical data analytics for general problems are also discussed The advanced applications of different data analytics in smart grids are addressed as the main part of this book By dealing with a huge amount of data from electricity networks meteorological information system geographical information system etc many benefits can be brought to the existing power system and improve customer service as well as social welfare in the era of big data However to advance the applications of big data analytics in real smart grids many issues such as techniques awareness and synergies have to be overcome This book provides deployment of semantic technologies in data

analysis along with the latest applications across the field such as smart grids

Digital Signal and Image Processing Using MATLAB Gerard Blanchet, Maurice Charbit, 2006-05-22 This title provides the most important theoretical aspects of Image and Signal Processing ISP for both deterministic and random signals The theory is supported by exercises and computer simulations relating to real applications More than 200 programs and functions are provided in the MATLAB language with useful comments and guidance to enable numerical experiments to be carried out thus allowing readers to develop a deeper understanding of both the theoretical and practical aspects of this subject

Chaos-based Cryptography Ljupco Kocarev, Shiguo Lian, 2011-06-17 Chaos based cryptography attracting many researchers in the past decade is a research field across two fields i e chaos nonlinear dynamic system and cryptography computer and data security It Chaos properties such as randomness and ergodicity have been proved to be suitable for designing the means for data protection The book gives a thorough description of chaos based cryptography which consists of chaos basic theory chaos properties suitable for cryptography chaos based cryptographic techniques and various secure applications based on chaos Additionally it covers both the latest research results and some open issues or hot topics The book creates a collection of high quality chapters contributed by leading experts in the related fields It embraces a wide variety of aspects of the related subject areas and provide a scientifically and scholarly sound treatment of state of the art techniques to students researchers academics personnel of law enforcement and IT practitioners who are interested or involved in the study research use design and development of techniques related to chaos based cryptography

Computer Networks, Big Data and IoT A. Pasumpon Pandian, Xavier Fernando, Syed Mohammed Shamsul Islam, 2021-06-21 This book presents best selected research papers presented at the International Conference on Computer Networks Big Data and IoT ICCBI 2020 organized by Vaigai College Engineering Madurai Tamil Nadu India during 15 16 December 2020 The book covers original papers on computer networks network protocols and wireless networks data communication technologies and network security The book is a valuable resource and reference for researchers instructors students scientists engineers managers and industry practitioners in those important areas

Futuristic Communication and Network Technologies A. Sivasubramanian, Prasad N. Shastry, Pua Chang Hong, 2021-10-11 This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies CFCNT 2020 conducted at Vellore Institute of Technology Chennai It covers various domains in communication engineering and networking technologies This volume comprises of recent research in areas like optical communication optical networks optics and optical computing emerging trends in photonics MEMS and sensors active and passive RF components and devices antenna systems and applications RF devices and antennas for microwave emerging technologies wireless communication for future networks signal and image processing machine learning AI for networks internet of intelligent things network security and blockchain technologies This book will be useful for researchers professionals and engineers working in the core areas of electronics and communication

Recent Trends

in Computer Networks and Distributed Systems Security Sabu M. Thampi, Albert Y. Zomaya, Thorsten Strufe, Jose M. Alcaraz-Calero, Tony Thomas, 2012-09-10 This book constitutes the refereed proceedings of the International Conference on Recent Trends in Computer Networks and Distributed Systems Security held in Trivandrum India in October 2012 The 34 revised full papers and 8 poster presentations were carefully reviewed and selected from 112 submissions The papers cover various topics in Computer Networks and Distributed Systems

Cryptography and Cryptanalysis in MATLAB Marius Iulian Mihailescu, Stefania Loredana Nita, 2021 Master the essentials of cryptography and cryptanalysis and learn how to put them to practical use Each chapter of this book starts with an introduction to the concepts on which cryptographic algorithms are based and how they are used in practice providing fully working examples for each of the algorithms presented Implementation sections will guide you through the entire process of writing your own applications and programs using MATLAB Cryptography and Cryptanalysis in MATLAB will serve as your definitive go to cryptography reference whether you are a student professional developer or researcher showing how a multitude of cryptographic challenges can be overcome using the powerful tools of MATLAB You will Discover MATLAB s cryptography functions Work with conversion mechanisms in MATLAB Implement cryptographic algorithms using arithmetic operations Understand the classical simple cryptosystems that form the basis of modern cryptography Develop fully working solutions encryption decryption operations Study pseudo random generators and their real life implementations Utilize hash functions by way of practical examples Implement solutions to defend against practical cryptanalysis methods and attacks Understand asymmetric and symmetric encryption systems and how to use them Leverage visual cryptography steganography and chaos based cryptography

Computing Concepts with C++ Essentials and MATLAB Cay S. Horstmann, 2000 C/C++ Users Journal, 2000 *Chinese Physics Letters*, 2008 Proceedings, 2002 **Practical Holography**, 2006 *APCCAS ...*, 2000 **Optical Engineering**, 2004 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology

Network Processors Panos C. Lekkas, 2003-07-28 Table of contents

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