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Advances in Computing and Network Communications - Sabu M. Thampi 2021-04-20
This book constitutes the thoroughly refereed post-conference proceedings of the 4th

International Conference on Computing and Network Communications (CoCoNet'20), October 14-17, 2020, Chennai, India. The papers presented were carefully reviewed and selected

from several initial submissions. The papers are organized in topical sections on Signal, Image and Speech Processing, Wireless and Mobile Communication, Internet of Things, Cloud and Edge Computing, Distributed Systems, Machine Intelligence, Data Analytics, Cybersecurity, Artificial Intelligence and Cognitive Computing and Circuits and Systems. The book is directed to the researchers and scientists engaged in various fields of computing and network communication domains.

1999 IEEE International Conference on Acoustics, Speech, and Signal Processing - 1999

Recent Advances in Algorithmic Differentiation -
Shaun Forth 2012-07-30

The proceedings represent the state of knowledge in the area of algorithmic differentiation (AD). The 31 contributed papers presented at the AD2012 conference cover the application of AD to many areas in science and

engineering as well as aspects of AD theory and its implementation in tools. For all papers the referees, selected from the program committee and the greater community, as well as the editors have emphasized accessibility of the presented ideas also to non-AD experts. In the AD tools arena new implementations are introduced covering, for example, Java and graphical modeling environments or join the set of existing tools for Fortran. New developments in AD algorithms target the efficiency of matrix-operation derivatives, detection and exploitation of sparsity, partial separability, the treatment of nonsmooth functions, and other high-level mathematical aspects of the numerical computations to be differentiated. Applications stem from the Earth sciences, nuclear engineering, fluid dynamics, and chemistry, to name just a few. In many cases the applications in a given area of science or engineering share characteristics that require specific approaches to enable AD capabilities or provide an

opportunity for efficiency gains in the derivative computation. The description of these characteristics and of the techniques for successfully using AD should make the proceedings a valuable source of information for users of AD tools.

Renewable Energy - Tolga Taner 2021-02

This book discusses renewable energy resources and systems as well as energy efficiency. It contains twenty-three chapters over six sections that address a multitude of renewable energy types, including solar and photovoltaic, biomass, hydroelectric, and geothermal. The information presented herein is a scientific contribution to energy and environmental regulations, quality and efficiency of energy services, energy supply security, energy market-based approaches, government interventions, and the spread of technological innovation.

Performance Analysis and Modeling of Digital Transmission Systems - William Turin
2012-12-06

This book is an expanded third edition of the book Performance Analysis of Digital Transmission Systems, originally published in 1990. Second edition of the book titled Digital Transmission Systems: Performance Analysis and Modeling was published in 1998. The book is intended for those who design communication systems and networks. A computer network designer is interested in selecting communication channels, error protection schemes, and link control protocols. To do this efficiently, one needs a mathematical model that accurately predicts system behavior. Two basic problems arise in mathematical modeling: the problem of identifying a system and the problem of applying a model to the system analysis. System identification consists of selecting a class of mathematical objects to describe fundamental properties of the system behavior. We use a specific class of hidden Markov models (HMMs) to model communication systems. This model was introduced by C. E. Shannon more than 50

years ago as a Noisy Discrete Channel with a finite number of states. The model is described by a finite number of matrices whose elements are estimated on the basis of experimental data. We develop several methods of model identification and show their relationship to other methods of data analysis, such as spectral methods, autoregressive moving average (ARMA) approximations, and rational transfer function approximations.

Understanding LTE with MATLAB - Houman Zarrinkoub 2014-01-28

An introduction to technical details related to the Physical Layer of the LTE standard with MATLAB® The LTE (Long Term Evolution) and LTE-Advanced are among the latest mobile communications standards, designed to realize the dream of a truly global, fast, all-IP-based, secure broadband mobile access technology. This book examines the Physical Layer (PHY) of the LTE standards by incorporating three conceptual elements: an overview of the theory behind key

enabling technologies; a concise discussion regarding standard specifications; and the MATLAB® algorithms needed to simulate the standard. The use of MATLAB®, a widely used technical computing language, is one of the distinguishing features of this book. Through a series of MATLAB® programs, the author explores each of the enabling technologies, pedagogically synthesizes an LTE PHY system model, and evaluates system performance at each stage. Following this step-by-step process, readers will achieve deeper understanding of LTE concepts and specifications through simulations. Key Features:

- Accessible, intuitive, and progressive; one of the few books to focus primarily on the modeling, simulation, and implementation of the LTE PHY standard
- Includes case studies and test benches in MATLAB®, which build knowledge gradually and incrementally until a functional specification for the LTE PHY is attained
- Accompanying Web site includes all MATLAB® programs, together

with PowerPoint slides and other illustrative examples Dr Houman Zarrinkoub has served as a development manager and now as a senior product manager with MathWorks, based in Massachusetts, USA. Within his 12 years at MathWorks, he has been responsible for multiple signal processing and communications software tools. Prior to MathWorks, he was a research scientist in the Wireless Group at Nortel Networks, where he contributed to multiple standardization projects for 3G mobile technologies. He has been awarded multiple patents on topics related to computer simulations. He holds a BSc degree in Electrical Engineering from McGill University and MSc and PhD degrees in Telecommunications from the Institut Nationale de la Recherche Scientifique, in Canada.

<http://www.wiley.com/go/zarrinkoub>
www.wiley.com/go/zarrinkoub/a
2018 IEEE 4th Information Technology and Mechatronics Engineering Conference (ITOEC) -

IEEE Staff 2018-12-14

The aim of ITOEC 2018 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Information Technology and Mechatronics Engineering. It provides opportunities for the delegates to exchange new ideas and application experiences, to establish business or research relations and to find global partners for future collaboration.

Computer Vision - ECCV 2012 - Andrew Fitzgibbon 2012-09-26

The seven-volume set comprising LNCS volumes 7572-7578 constitutes the refereed proceedings of the 12th European Conference on Computer Vision, ECCV 2012, held in Florence, Italy, in October 2012. The 408 revised papers presented were carefully reviewed and selected from 1437 submissions. The papers are organized in topical sections on geometry, 2D and 3D shape, 3D

reconstruction, visual recognition and classification, visual features and image matching, visual monitoring: action and activities, models, optimisation, learning, visual tracking and image registration, photometry: lighting and colour, and image segmentation.
ISMIR 2008 - Juan Pablo Bello 2008

Systems and Control Theory for Power Systems - Joe H. Chow 1995-02-24

The articles in this volume cover power system model reduction, transient and voltage stability, nonlinear control, robust stability, computation and optimization and have been written by some of the leading researchers in these areas. This book should be of interest to power and control engineers, and applied mathematicians.

Computational Intelligence Methods for Bioinformatics and Biostatistics - Riccardo Rizzo 2011-07-18

This book constitutes the thoroughly refereed post-proceedings of the 7th International

Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics, CIBB 2010, held in Palermo, Italy, in September 2010. The 19 papers, presented together with 2 keynote speeches and 1 tutorial, were carefully reviewed and selected from 24 submissions. The papers are organized in topical sections on sequence analysis, promoter analysis and identification of transcription factor binding sites; methods for the unsupervised analysis, validation and visualization of structures discovered in biomolecular data -- prediction of secondary and tertiary protein structures; gene expression data analysis; bio-medical text mining and imaging -- methods for diagnosis and prognosis; mathematical modelling and simulation of biological systems; and intelligent clinical decision support systems (i-CDSS).

Communication and Networking - Tai-hoon Kim 2011-11-29

The two volume set, CCIS 265 and CCIS 266, constitutes the refereed proceedings of the

International Conference, FGCN 2011, held as Part of the Future Generation Information Technology Conference, FGIT 2011, Jeju Island, Korea, in December 2011. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of future generation communication and networking.

Swarm, Evolutionary, and Memetic

Computing - Bijaya Ketan Panigrahi 2010-12-06

This LNCS volume contains the papers presented at the First Swarm, Evolutionary and Memetic Computing Conference (SEMCCO 2010) held during December 16-- 18, 2010 at SRM University, Chennai, in India. SEMCCO 2010 marked the beginning of a prestigious international conference series that aims at bringing together researchers from academia and industry to report and review the latest progress in the cutting-edge research on swarm, evolutionary, and memetic computing, to explore new application areas, to design new bio-

inspired algorithms for solving specific hard optimization problems, and finally to create awareness on these domains to a wider audience of practitioners. SEMCCO 2010 received 225 paper submissions from 20 countries across the globe. After a rigorous peer-review process involving 610 reviews in total, 90 full-length articles were accepted for oral presentation at the conference. This corresponds to an acceptance rate of 40% and is intended for maintaining the high standards of the conference proceedings. The papers included in this LNCS volume cover a wide range of topics in swarm, evolutionary, and memetic computing algorithms and their real-world applications in problems selected from diverse domains of science and engineering.

[Digital Image Interpolation in Matlab](#) - Chi-Wah Kok 2019-03-19

This book provides a comprehensive study in digital image interpolation with theoretical, analytical and Matlab® implementation. It

includes all historically and practically important interpolation algorithms, accompanied with Matlab® source code on a website, which will assist readers to learn and understand the implementation details of each presented interpolation algorithm. Furthermore, sections in fundamental signal processing theories and image quality models are also included. The authors intend for the book to help readers develop a thorough consideration of the design of image interpolation algorithms and applications for their future research in the field of digital image processing. Introduces a wide range of traditional and advanced image interpolation methods concisely and provides thorough treatment of theoretical foundations Discusses in detail the assumptions and limitations of presented algorithms Investigates a variety of interpolation and implementation methods including transform domain, edge-directed, wavelet and scale-space, and fractal based methods Features simulation results for

comparative analysis, summaries and computational and analytical exercises at the end of each chapter Digital Image Interpolation in Matlab® is an excellent guide for researchers and engineers working in digital imaging and digital video technologies. Graduate students studying digital image processing will also benefit from this practical reference text.

Novel Algorithms and Techniques in Telecommunications and Networking - Tarek Sobh 2010-01-30

Novel Algorithms and Techniques in Telecommunications and Networking includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology and Automation, Telecommunications and Networking. Novel Algorithms and Techniques in Telecommunications and Networking includes selected papers from the conference proceedings of the International Conference on

Telecommunications and Networking (TeNe 08) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2008).

Computational Forensics - Utpal Garain
2015-06-26

This book constitutes the refereed post-conference proceedings of the 5th and 6th International Workshops on Computational Forensics, IWCF 2012 and IWCF 2014, held in Tsukuba, Japan, in November 2010 and August 2014. The 16 revised full papers and 1 short paper were carefully selected from 34 submissions during a thorough review process. The papers are divided into three broad areas namely biometrics; document image inspection; and applications.

MIMO-OFDM Wireless Communications with MATLAB - Yong Soo Cho 2010-08-20

MIMO-OFDM is a key technology for next-generation cellular communications (3GPP-LTE,

Mobile WiMAX, IMT-Advanced) as well as wireless LAN (IEEE 802.11a, IEEE 802.11n), wireless PAN (MB-OFDM), and broadcasting (DAB, DVB, DMB). In *MIMO-OFDM Wireless Communications with MATLAB®*, the authors provide a comprehensive introduction to the theory and practice of wireless channel modeling, OFDM, and MIMO, using MATLAB® programs to simulate the various techniques on MIMO-OFDM systems. One of the only books in the area dedicated to explaining simulation aspects Covers implementation to help cement the key concepts Uses materials that have been classroom-tested in numerous universities Provides the analytic solutions and practical examples with downloadable MATLAB® codes Simulation examples based on actual industry and research projects Presentation slides with key equations and figures for instructor use *MIMO-OFDM Wireless Communications with MATLAB®* is a key text for graduate students in wireless communications. Professionals and

technicians in wireless communication fields, graduate students in signal processing, as well as senior undergraduates majoring in wireless communications will find this book a practical introduction to the MIMO-OFDM techniques.

Instructor materials and MATLAB® code examples available for download at www.wiley.com/go/chomimo

Proceedings of International Conference on Communication, Circuits, and Systems - Sukanta Kumar Sabut 2021-04-02

The book proposes new technologies and discusses innovative solutions to various problems in the field of communication, circuits, and systems, as reflected in high-quality papers presented at International Conference on Communication, Circuits, and Systems (IC3S 2020) held at KIIT, Bhubaneswar, India from 16 - 18 October 2020. It brings together new works from academicians, scientists, industry professionals, scholars, and students together to exchange research outcomes and open up new

horizons in the areas of signal processing, communications, and devices.

Computational Econometrics - Charles G. Renfro 2004

This publication contains a substantial amount of detail about the broad history of the development of econometric software based on the personal recollections of many people. For economists, the computer has increasingly become the primary applied research tool, and it is software that makes the computer work. It matters that this software should be the best that it can be, for not only does it permit necessary calculations to be performed but it also determines, for better or worse over time, how easy or how difficult the applied research process will be for each succeeding generation of economists. This assertion assumes of course the availability of the necessary data, and that observations can be obtained relatively easily but in the day of the Internet, data distribution is also a matter of software. And, in addition, there

is the consideration that both the quality and the amount of possible research, as a matter of time spent, may be crucially dependent on just how good that software is, both in its computational properties and as a time saver. This publication includes revealing descriptions of computer-based research that illustrates the role of the computer in the progress of econometric theory and economic research and aspects of the development of econometric software, starting from the hand calculation era and continuing to relatively modern times.

Software Quality. Model-Based Approaches for Advanced Software and Systems Engineering - Dietmar Winkler 2014-01-09

This book constitutes the refereed proceedings of the 6th Software Quality Days Conference (SWQD) held in Vienna, Austria, in January 2014. This professional symposium and conference offers a range of comprehensive and valuable opportunities for advanced professional training, new ideas and networking with a series

of keynote speeches, professional lectures, exhibits and tutorials. The four scientific full papers accepted for SWQD were each peer reviewed by three or more reviewers and selected out of 24 high-quality submissions. Further, one keynote and ten short papers on promising research directions were also presented and included in order to spark discussions between researchers and practitioners. The papers are organized into topical sections on software process improvement and measurement, requirements management, value-based software engineering, software and systems testing, automation-supported testing and quality assurance and collaboration.

Undocumented Secrets of MATLAB-Java Programming - Yair M. Altman 2011-12-05

For a variety of reasons, the MATLAB®-Java interface was never fully documented. This is really quite unfortunate: Java is one of the most widely used programming languages, having

many times the number of programmers and programming resources as MATLAB. Also unfortunate is the popular claim that while MATLAB is a fine programming platform for prototyping, it is not suitable for real-world, modern-looking applications. Undocumented Secrets of MATLAB®-Java Programming aims to correct this misconception. This book shows how using Java can significantly improve MATLAB program appearance and functionality, and that this can be done easily and even without any prior Java knowledge. Readers are led step-by-step from simple to complex customizations. Code snippets, screenshots, and numerous online references are provided to enable the utilization of this book as both a sequential tutorial and as a random-access reference suited for immediate use. Java-savvy readers will find it easy to tailor code samples for their particular needs; for Java newcomers, an introduction to Java and numerous online references are provided. This book demonstrates how The

MATLAB programming environment relies on Java for numerous tasks, including networking, data-processing algorithms and graphical user-interface (GUI) We can use MATLAB for easy access to external Java functionality, either third-party or user-created Using Java, we can extensively customize the MATLAB environment and application GUI, enabling the creation of visually appealing and usable applications [Proceedings of the IEEE International Symposium on Industrial Electronics - 1997](#)

Problem-Based Learning in Communication Systems Using MATLAB and Simulink -

Kwonhue Choi 2016-02-29

Designed to help teach and understand communication systems using a classroom-tested, active learning approach. Discusses communication concepts and algorithms, which are explained using simulation projects, accompanied by MATLAB and Simulink Provides step-by-step code exercises and instructions to

implement execution sequences Includes a companion website that has MATLAB and Simulink model samples and templates (password: matlab)

IEEE Transactions on Circuits and Systems - 2006

IEEE Circuits & Devices - 2000

Electronics, Communications and Networks IV - Amir Hussain 2015-07-01

The 4th International Conference on Electronic, Communications and Networks (CECNet2014) inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai. CECNet2014 was hosted by Hubei University of Science and Technology, China, with the main objective of providing a comprehensive global forum

Novel Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics - Tarek Sobh

2008-08-15

Novel Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology and Automation, Telecommunications and Networking. **Novel Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics** includes selected papers from the conference proceedings of the International Conference on Industrial Electronics, Technology and Automation (IETA 2007) and International Conference on Telecommunications and Networking (TeNe 07) which were part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

Introduction to Communication Systems - Upamanyu Madhow 2014-11-24

An accessible undergraduate textbook introducing key fundamental principles behind modern communication systems, supported by exercises, software problems and lab exercises. [Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications](#) - Marcelo Mendoza 2018-02-09

This book constitutes the refereed post-conference proceedings of the 22nd Iberoamerican Congress on Pattern Recognition, CIARP 2017, held in Valparaíso, Chile, in November 2017. The 87 papers presented were carefully reviewed and selected from 156 submissions. The papers feature research results in the areas of pattern recognition, image processing, computer vision, multimedia and related fields.

Proceedings of the ... IEEE Conference on Nanotechnology - 2003

Selected Papers from MEDPOWER 2018 - Igor Kuzle 2021-09-02

This Special Issue presents extended versions of selected top papers of the Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER), held in Dubrovnik in 2018. The 11th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2018) was held in Cavtat, Dubrovnik, Croatia, from 12 to 15 November 2018. The conference gathered more than 200 scientists, researchers, and experts from all around the world. A total of 147 oral presentations were held during the conference, with an additional 50 papers presented in special sessions. The top 10 papers have been selected for this Special Issue in Energies, covering a variety of topics from end-user challenges, distribution and transmission network operation and planning, to generation planning and modeling.

Integrated Circuit and System Design. Power and Timing Modeling, Optimization

and Simulation - Johan Vounckx 2006-09-08

This book constitutes the refereed proceedings of the 16th International Workshop on Power and Timing Modeling, Optimization and Simulation, PATMOS 2006. The book presents 41 revised full papers and 23 revised poster papers together with 4 key notes and 3 industrial abstracts. Topical sections include high-level design, power estimation and modeling memory and register files, low-power digital circuits, busses and interconnects, low-power techniques, applications and SoC design, modeling, and more.

Handbook of Convex Optimization Methods in Imaging Science - Vishal Monga 2017-10-27

This book covers recent advances in image processing and imaging sciences from an optimization viewpoint, especially convex optimization with the goal of designing tractable algorithms. Throughout the handbook, the authors introduce topics on the most key aspects of image acquisition and processing that are

based on the formulation and solution of novel optimization problems. The first part includes a review of the mathematical methods and foundations required, and covers topics in image quality optimization and assessment. The second part of the book discusses concepts in image formation and capture from color imaging to radar and multispectral imaging. The third part focuses on sparsity constrained optimization in image processing and vision and includes inverse problems such as image restoration and de-noising, image classification and recognition and learning-based problems pertinent to image understanding. Throughout, convex optimization techniques are shown to be a critically important mathematical tool for imaging science problems and applied extensively. Convex Optimization Methods in Imaging Science is the first book of its kind and will appeal to undergraduate and graduate students, industrial researchers and engineers and those generally interested in computational aspects of modern, real-world

imaging and image processing problems.
2003 IEEE/RSJ International Conference on
Intelligent Robots and Systems - 2003

*Signal Processing for Wireless Communication
Systems* - H. Vincent Poor 2006-04-11

Signal Processing for Wireless Communication Systems brings together in one place important contributions and up-to-date research results in this fast moving area. The Contributors to this work were selected from leading researchers and practitioners in this field. The book's 18 chapters are divided into three areas: systems, Networks, and Implementation Issues; Channel Estimation and Equalization; and Multiuser Detection. The Work, originally published as Volume 30, Numbers 1-3 of the Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology, will be valuable to anyone working or researching in the field of wireless communication systems. It serves as an excellent reference, providing insight into some

of the most challenging issues being examined today.

Comprehensive Chemometrics - Steven Brown 2020-05-26

Comprehensive Chemometrics, Second Edition features expanded and updated coverage, along with new content that covers advances in the field since the previous edition published in 2009. Subject of note include updates in the fields of multidimensional and megavariate data analysis, omics data analysis, big chemical and biochemical data analysis, data fusion and sparse methods. The book follows a similar structure to the previous edition, using the same section titles to frame articles. Many chapters from the previous edition are updated, but there are also many new chapters on the latest developments. Presents integrated reviews of each chemical and biological method, examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge, covering developments in the field

since the first edition published in 2009 Meticulously organized, with articles split into 4 sections and 12 sub-sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience Presents integrated reviews of each chemical and biological method, examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge, covering developments in the field since the first edition published in 2009 Meticulously organized, with articles split into 4 sections and 12 sub-sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large

audience

Safety, Reliability and Risk Analysis -

Sebastian Martorell 2008-09-10

Safety, Reliability and Risk Analysis. Theory, Methods and Applications contains the papers presented at the joint ESREL (European Safety and Reliability) and SRA-Europe (Society for Risk Analysis Europe) Conference (Valencia, Spain, 22-25 September 2008). The book covers a wide range of topics, including: Accident and Incident Investigation; Crisi

Theory and Practice of Control and Systems - A Tornambe 1999-01-04

This volume gathers together all the lectures presented at the 6th IEEE Mediterranean Conference. It focuses on the mathematical aspects in the theory and practice of control and systems, including stability and stabilizability, robust control, adaptive control, robotics and manufacturing; these topics are under intense investigation and development in the engineering and mathematics communities. The

volume should have immediate appeal for a large group of engineers and mathematicians who are interested in very abstract as well as very concrete aspects of control and system theory. Contents: Quantified Multivariate Polynomial Inequalities: The Mathematics of (Almost) All Practical Control Design Problems (P Dorato) Digital Second Order Sliding Mode Control with Uncertainties Estimation for a Class of SISO Nonlinear Systems (G Bartolini et al.) Development and Identification of a Hierarchical System of Models for Rapid Prototyping of Si Engines (I Arsie et al.) Identification of Uncertainty Models for Robust Control Design (S Malan et al.) Second Order Chattering-Free Sliding Mode Control for Some Classes of Multi-Input Uncertain Nonlinear Systems (G Bartolini et al.) Sliding Mode Output Regulation of Linear and Nonlinear Systems with Relative Degree One (L Marconi et al.) Output Control of Nonlinear Systems with Multiple Discrete Delays (M Dalla Mora et

al.) Analytical Synthesis of Least Curvature 2D Paths for Underwater Applications (G Indiveri et al.) Modelling and Control of Nonsmooth Hybrid Mechanical Systems (B Brogliato) Global Temperature Stabilization of Chemical Reactors with Bounded Control (R Antonelli & A Astolfi) Detection and Accommodation of Second Order Distributed Parameter Systems with Abrupt Changes in Input Term: Existence and Approximation (M A Demetriou et al.) Discrete-Event Models of Manufacturing Systems (E Canuto) Optimization of Internal Forces in Force-Closure Grasps (A Bicchi et al.) Loading Parts and Tools in a Flexible Manufacturing System (D Pacciarelli) and other papers Readership: Researchers in control & system theory, electrical & electronic engineering, mechanical & knowledge engineering and robotics. Channel Coding Techniques for Wireless Communications - K. Deerga Rao 2019-11-22 This book discusses the latest channel coding techniques, MIMO systems, and 5G channel

coding evolution. It provides a comprehensive overview of channel coding, covering modern techniques such as turbo codes, low-density parity-check (LDPC) codes, space-time coding, polar codes, LT codes, and Raptor codes as well as the traditional codes such as cyclic codes, BCH, RS codes, and convolutional codes. It also explores MIMO communications, which is an effective method for high-speed or high-reliability wireless communications. It also examines the evolution of 5G channel coding techniques. Each of the 13 chapters features numerous illustrative examples for easy

understanding of the coding techniques, and MATLAB-based programs are integrated in the text to enhance readers' grasp of the underlying theories. Further, PC-based MATLAB m-files for illustrative examples are included for students and researchers involved in advanced and current concepts of coding theory.

Photon-Counting Image Sensors - Eric R. Fossum 2018-07-06

This book is a printed edition of the Special Issue "Photon-Counting Image Sensors" that was published in *Sensors*