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FERNANDA ROWAN

Photon-Counting Image Sensors Springer Science & Business Media

The conference ET2020 is organized by Technical University of Sofia, Faculty of Electronic Engineering and Technologies, Bulgaria, in co operation with Delft University of Technology, the Netherlands It has been held in Sozopol, Bulgaria annually since 1990 The Conference traditionally has great popularity among researchers and professors from technical universities in Bulgaria and the Bulgarian Academy of Sciences The Conference is known among the scientific community outside Bulgaria Distinguished scientists and PhD students from Bulgaria, the Netherlands, Germany, France, Spain, Armenia, Belgium, Denmark, Czech Republic, North Macedonia, Romania, Serbia and etc take part Along with the sessions there are organized discussions on educational and industry problems where the participants exchange ideas how to improve the interaction between the business and academia

Recent Advances in Algorithmic Differentiation Springer Science & Business Media

An accessible undergraduate textbook introducing key fundamental principles behind modern communication systems, supported by exercises, software problems and lab exercises.

International Conference, FGCN 2011, Held as Part of the Future Generation Information Technology Conference, FGIT 2011, in Conjunction with GDC 2011, Jeju Island, Korea, December 8-10, 2011. Proceedings Springer

Pattern recognition is a scientific discipline that is becoming increasingly important in the age of automation and information handling and retrieval. Patter Recognition, 2e covers the entire spectrum of pattern recognition applications, from image analysis to speech recognition and communications. This book presents cutting-edge material on neural networks, - a set of linked microprocessors that can form associations and uses pattern recognition to "learn" -and enhances student motivation by approaching pattern recognition from the designer's point of view. A direct result of more than 10 years of teaching experience, the text was developed by the authors through use in their own classrooms. *Approaches pattern recognition from the designer's point of view *New edition highlights latest developments in this growing field, including independent components and support vector machines, not available elsewhere *Supplemented by computer examples selected from applications of interest

Robust Control of DC-DC Converters Springer Science & Business Media

Orthogonal Frequency Division Multiplexing (OFDM) has been the waveform of choice for most wireless communications systems in the past 25 years. This book addresses the "what comes next?" question by presenting the recently proposed waveform known as Orthogonal Time-Frequency-Space (OTFS), which offers a better alternative for high-mobility environments. The OTFS waveform is based on the idea that the mobile wireless channels can be effectively modelled in the delay-Doppler domain. This domain provides a sparse representation closely resembling the physical geometry of the wireless channel. The key physical parameters such as relative velocity and distance of the reflectors with respect to the receiver can be considered roughly invariant in the duration of a frame up to a few milliseconds. This enables the information symbols encoded in the delay-Doppler domain to experience a flat fading channel even when they are affected by multiple Doppler shifts present in high-mobility environments. Delay-Doppler Communications: Principles and Applications covers the fundamental concepts and the underlying principles of delay-Doppler communications. Readers familiar with OFDM will be able to quickly understand the key differences in delay-Doppler domain waveforms that can overcome some of the challenges of high-mobility communications. For the broader readership with a basic knowledge of wireless communications principles, the book provides sufficient background to be self-contained. The book provides a general overview of future research directions and discusses a range of applications of delay-Doppler domain signal processing. With this book, the reader will be able to: Recognize the challenges of high-mobility channels affected by both multipath and multiple Doppler shifts in physical layer waveform design and performance; Understand the limitations of current multicarrier techniques such as OFDM in high-mobility channels; Recognize the mathematical and physical relations between the different domains for representing channels and waveforms: time-frequency, time-delay, delay-Doppler; Understand the operation of the key blocks of a delay-Doppler modulator and demodulator both analytically and by hands-on MATLAB examples; Master the special features and advantages of OTFS with regard to detection, channel estimation, MIMO, and multiuser MIMO; Realize the importance of delay-Doppler communications for current and future applications, e.g., 6G and beyond. This is the first book on delay-Doppler communications. It is written by three of the leading authorities in the field. It includes a wide range of applications.

6th International Conference, SWQD 2014, Vienna, Austria, January 14-16, 2014, Proceedings John Wiley & Sons

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

Safety, Reliability and Risk Analysis Academic Press

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.

Introduction to Communication Systems John Wiley & Sons

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.

A Publication of the IEEE Circuits and Systems Society. Regular papers. I MDPI

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

CRC Press

DC-DC converters require negative feedback to provide a suitable output voltage or current for the load. Obtaining a stable output voltage or current in the presence of disturbances like input voltage changes and/or output load changes seems impossible without some form of control. This book shows how simple controllers such as Proportional-Integral (PI) can turn into a robust controller by correct selection of its parameters. Kharitonov's theorem is an important tool toward this end. This

book consist of two parts. The first part shows how one can obtain the interval plant model of a DC-DC converter. The second part introduces the Kharitonov's theorem. Kharitonov's theorem is an analysis tool rather than a design tool. Some case studies show how it can be used as a design tool. The prerequisite for reading this book is a first course on feedback control theory and power electronics.

Proceedings of the ... IEEE Conference on Nanotechnology Cambridge University Press

The two volume set, CCIS 265 and CCIS 266, constitutes the refereed proceedings of the International Conference, FGICN 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.

IEEE Transactions on Circuits and Systems Elsevier

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.

IC3S 2020 John Wiley & Sons

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.

Understanding LTE with MATLAB Morgan & Claypool Publishers

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.

2018 IEEE 8th Annual Computing and Communication Workshop and Conference (CCWC) World Scientific

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 bio-molecular 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).

IEEE Circuits & Devices Digital Image Interpolation in Matlab

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

Systems and Control Theory for Power Systems Springer Nature

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.

Proceedings of the 9th International Conference of Music Information Retrieval Springer Science & Business Media

Digital Image Interpolation in Matlab John Wiley & Sons

Proceedings of CoCoNet 2020, Volume 1 Springer Nature

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.

The 11th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion Springer

The main mission of this conference is to generate a long term smart grid and renewable energy research expertise, agenda, progress, and to identify the future electric energy challenges

2018 IEEE 4th Information Technology and Mechatronics Engineering Conference (ITOEC) John Wiley & Sons

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.