

**Signals
and
Communication
Technology**

**F. C. M. Lau
C. K. Tse**

Chaos-Based Digital Communication Systems



Springer

Chaosbased Digital Communication Systems Operating Principles Analysis Methods And Performance Evaluation

Francis C.M. Lau, Chi K. Tse



Chaosbased Digital Communication Systems Operating Principles Analysis Methods And Performance Evaluation:

Chaos-Based Digital Communication Systems Francis C.M. Lau, Chi K. Tse, 2013-03-09 In the 1970 s and 1980 s we saw phenomenal advancement in nonlinear science which had led to many important discoveries that greatly improve our understanding of the physical world Among them the discovery of chaos in deterministic systems is unarguably one of the most revolutionary scientific findings We are now able to explain the apparent complexity and subtle order exhibited by many physical systems under the unified framework of chaos theory The past decade has seen heightened interest in the exploitation of chaos for useful applications in engineering systems One application area that has attracted a great deal of attention is communications Chaotic signals by virtue of their wide band characteristic are natural candidates for carrying information in a spread spectrum communication environment The use of chaotic signals in communications thus naturally inherits the advantages that are currently being offered by conventional spread spectrum communication systems such as robustness in multi path environments resistance to jamming low probability of interception etc In addition chaotic signals are easy to generate and hence offer a potentially low cost solution to spread spectrum communications Although many practical problems need to be solved before chaos based communications can be realized in practice the field has advanced rapidly during the past few years and it now reaches a point where abstract concepts from physics and mathematics have been fruitfully ported to techniques that allow information to be carried by chaotic signals

Chaos Theory Kais A. M. Al Naimee, 2018-03-28 With a good background in nonlinear dynamics chaos theory and applications the author of this leading book gives a systematic treatment of the basic principle of nonlinear dynamics in different fields The contributions from leading international scientists active in the field provide a comprehensive overview of our current level of background on chaos theory and applications in different sciences In addition they show overlap with the traditional field of control theory in scientific community

Discrete Communication Systems Stevan Berber, 2021 This is the first textbook which presents the theory of pure discrete communication systems and its relation to the existing theory of digital communication It is written for undergraduate and graduate students and for practicing engineers

[Data-Centric Business and Applications](#) Tamara Radivilova, Dmytro Ageyev, Natalia Kryvinska, 2020-06-20 This book addresses the challenges and opportunities of information data processing and management It also covers a range of methods techniques and strategies for making it more efficient approaches to increasing its usage and ways to minimize information data loss while improving customer satisfaction

Information and Communication Technologies ICTs and the Service Systems associated with them have had an enormous impact on businesses and our day to day lives over the past three decades and continue to do so This development has led to the emergence of new application areas and relevant disciplines which in turn present new challenges and opportunities for service system usage The book provides practical insights into various aspects of ICT technologies for service systems

Techniques for information data processing and modeling in service systems Strategies for the provision of information data

processing and management Methods for collecting and analyzing information data Applications benefits and challenges of service system implementation Solutions to increase the performance of various service systems using the latest ICT technologies

Voice and Speech Quality Perception Ute Jekosch, 2005-08-02 Foundations of Voice and Speech Quality Perception starts out with the fundamental question of How do listeners perceive voice and speech quality and how can these processes be modeled Any quantitative answers require measurements This is natural for physical quantities but harder to imagine for perceptual measurands This book approaches the problem by actually identifying major perceptual dimensions of voice and speech quality perception defining units wherever possible and offering paradigms to position these dimensions into a structural skeleton of perceptual speech and voice quality The emphasis is placed on voice and speech quality assessment of systems in artificial scenarios Many scientific fields are involved This book bridges the gap between two quite diverse fields engineering and humanities and establishes the new research area of Voice and Speech Quality Perception

Circuits and Systems Based on Delta Modulation Djuro G. Zrilic, 2006-03-30 This book is intended for students and professionals who are interested in the field of digital signal processing of delta sigma modulated sequences The overall focus is on the development of algorithms and circuits for linear non linear and mixed mode processing of delta sigma modulated pulse streams The material presented here is directly relevant to applications in digital communication DSP instrumentation and control

Electronic Noise and Interfering Signals Gabriel Vasilescu, 2006-01-17 Electronic Noise and Interfering Signals is a comprehensive reference book on noise and interference in electronic circuits with particular focus on low noise design The first part of the book deals with mechanisms modelling and computation of intrinsic noise which is generated in every electronic device The second part analyzes the coupling mechanisms which can lead to a contamination of circuits by parasitic signals and provides appropriate solutions to this problem The last part contains more than 100 practical elaborate case studies The book requires no advanced mathematical training as it introduces the fundamental methods Moreover it provides insight into computational noise analysis with SPICE and NOF a software developed by the author The book addresses designers of electronic circuits as well as researchers from electrical engineering physics and material science It should also be of interest for undergraduate and graduate students

Speech Enhancement Jacob Benesty, Shoji Makino, Jingdong Chen, 2006-03-30 We live in a noisy world In all applications telecommunications hands free communications recording human machine interfaces etc that require at least one microphone the signal of interest is usually contaminated by noise and reverberation As a result the microphone signal has to be cleaned with digital signal processing tools before it is played out transmitted or stored This book is about speech enhancement Different well known and state of the art methods for noise reduction with one or multiple microphones are discussed By speech enhancement we mean not only noise reduction but also dereverberation and separation of independent signals These topics are also covered in this book However the general emphasis is on noise reduction because of the large number of applications that can benefit from

this technology The goal of this book is to provide a strong reference for researchers engineers and graduate students who are interested in the problem of signal and speech enhancement To do so we invited well known experts to contribute chapters covering the state of the art in this focused field Wireless Communications 2007 CNIT Tyrrhenian Symposium Silvano Pupolin, 2007-12-18 The 18th Tyrrhenian Workshop on digital communications is devoted to wireless communications In the last decade wireless communications research boosted launching new standards and proposing new techniques for the access technology We moved from the UTRA standard capable to transmit 0.5 bit/s/Hz to WLAN which is promising 27 bit/s/Hz Now wireless communication systems are facing a flourishing of new proposals moving from multiple antennas at transmitter and receiver side MIMO systems to new powerful Forward Error Correction Codes to adaptive radio resource management algorithms The new challenge however is the move towards multimedia communications and IP technology This move implies efforts in several new aspects First of all an open network as IP imposes the necessity of a secure network to guarantee the privacy of the ongoing communications avoid the use of the networks by unauthorized customers avoid the misuses and the charge to third parties of the cost of the connection Also quality of service QoS of the communications is becoming a must in IP networks which are carrying services which need a guaranteed QoS as telephony real time services etc To get this new target some form of access control to the network must be setup Recently new form of communication networks has appeared to collect data for several applications sensor networks ad hoc networks etc and they need a connection with a backbone network which could be a wireless one with a larger range than the sensor or ad hoc networks **Bio-Inspired**

Information Pathways Martin Ziegler, Thomas Mussenbrock, Hermann Kohlstedt, 2023-09-19 This open access book offers a timely and comprehensive review of the field of neurotronics Gathering cutting edge contributions from neuroscientists biologists psychologists as well as physicists microelectronics engineers and information scientists it gives extensive information on fundamental information pathways in selected nervous systems It also highlights their relevance as building blocks for novel computing architectures such as bio inspired electronic devices neuromorphic architectures memristive devices adaptive sensors and emergent pulsed coupled oscillatory networks All in all this book offers a unique bridge between fundamental research in neuroscience neural information processing nonlinear dynamics and self organization and advanced practical applications concerning the fabrication of hardware oriented computing *Speech Enhancement* Shoji Makino, Jingdong Chen, 2005 We live in a noisy world In all applications telecommunications hands free communications recording human machine interfaces etc that require at least one microphone the signal of interest is usually contaminated by noise and reverberation As a result the microphone signal has to be cleaned with digital signal processing tools before it is played out transmitted or stored This book is about speech enhancement Different well known and state of the art methods for noise reduction with one or multiple microphones are discussed By speech enhancement we mean not only noise reduction but also dereverberation and separation of independent signals These topics are also covered in this book However

the general emphasis is on noise reduction because of the large number of applications that can benefit from this technology. The goal of this book is to provide a strong reference for researchers, engineers and graduate students who are interested in the problem of signal and speech enhancement. To do so, we invited well known experts to contribute chapters covering the state of the art in this focused field.

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Study of the Wiener Filter for Noise Reduction

Statistical Methods for the Enhancement of Noisy Speech

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Frequency Domain Blind Source Separation

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Real Time Blind Source Separation for Moving Speech Signals

Separation of Speech by Computational Auditory Scene Analysis

Acoustic MIMO Signal Processing Yiteng Huang, Jacob Benesty, Jingdong Chen, 2006-11-22

Telecommunication systems and human machine interfaces have begun using multiple microphones and loudspeakers to render interaction more lifelike and more efficient. This raises acoustic signal processing problems under multiple input multiple output (MIMO) scenarios encompassing distant speech acquisition, sound source localization and tracking, echo and noise control, source separation and speech dereverberation and many others. The book opens with an acoustic MIMO paradigm establishing fundamentals and linking acoustic MIMO signal processing with classical signal processing and communication theories. The second part of the book presents a novel analysis of acoustic applications carried out in the paradigm to reinforce the fundamentals of acoustic MIMO signal processing.

New Quests in Stellar Astrophysics: The Link Between Stars and Cosmology Miguel Chávez, Alessandro Bressan, Alberto Buzzoni, Divakara Mayya, 2002-09-30

Stellar astrophysics still provides the basic framework for deciphering the imprints left over by the evolving universe on all scales. Advances or shortcomings in the former field have direct consequences in our ability to understand the global properties of the latter. This volume contains the most recent updates on a variety of topics that though independent by themselves are inevitably connected on a cosmological scale. These include comprehensive articles by leaders in fields extending from stellar atmospheres through properties of the stellar component in the Milky Way up to the stellar environment in high redshift galaxies. The wide coverage of astrophysical themes makes this volume very valuable for researchers and Ph.D. students in astrophysics.

Multimedia Content Analysis Ajay Divakaran, 2009-03-02

Multimedia Content Analysis: Theory and Applications covers the latest in multimedia content analysis and applications based on such analysis. As research has progressed, it has become clear that this field has to appeal to other disciplines such as psycho-

physics media production etc This book consists of invited chapters that cover the entire range of the field Some of the topics covered include low level audio visual analysis based retrieval and indexing techniques the TRECVID effort video browsing interfaces content creation and content analysis and multimedia analysis based applications among others The chapters are written by leading researchers in the multimedia field

EM Modeling of Antennas and RF Components for Wireless Communication Systems Frank Gustrau,Dirk Manteuffel,2006-08-02 This book focuses on practical computational electrodynamics guiding the reader step by step through the modeling process from the initial what question must the model answer through the setting up of a computer model to post processing validation and optimization The book offers a realistic view of the capabilities and limits of current 3 D field simulators and how to apply this knowledge efficiently to EM analysis and design of RF applications in modern communication systems

Grid Enabled Remote Instrumentation Franco Davoli,Norbert Meyer,Roberto Pugliese,Sandro Zappatore,2008-10-10 Grid architectures which are viewed as tools for the integration of distributed resources play a significant role as managers of computational resources but also as aggregators of measurement instrumentation and pervasive large scale data acquisition platforms The functionality of a grid architecture allows managing maintaining and exploiting heterogeneous instrumentation and acquisition devices in a unified way by providing standardized interfaces and common work environments to their users This result is achieved through the properties of isolation from the physical network and from the peculiarities of the instrumentation granted by standard middleware together with secure and flexible mechanisms which seek access and aggregate distributed resources This book focuses on a number of aspects related to the effective exploitation of remote instrumentation on the grid These include middleware architecture high speed networking in support of grid applications wireless grid for acquisition devices and sensor networks quality of service provisioning for real time control and measurement instrumentation

The Variational Bayes Method in Signal Processing Václav Šmídl,Anthony Quinn,2006-03-30 This is the first book length treatment of the Variational Bayes VB approximation in signal processing It has been written as a self contained self learning guide for academic and industrial research groups in signal processing data analysis machine learning identification and control It reviews the VB distributional approximation showing that tractable algorithms for parametric model identification can be generated in off line and on line contexts Many of the principles are first illustrated via easy to follow scalar decomposition problems In later chapters successful applications are found in factor analysis for medical image sequences mixture model identification and speech reconstruction Results with simulated and real data are presented in detail The unique development of an eight step VB method which can be followed in all cases enables the reader to develop a VB inference algorithm from the ground up for their own particular signal or image model

Topics in Acoustic Echo and Noise Control Eberhard Hänsler,Gerhard Schmidt,2006-08-26 This book treats important topics in Acoustic Echo and Noise Control and reports the latest developments Methods for enhancing the quality of transmitted speech signals are gaining

growing attention in universities and in industrial development laboratories This book written by an international team of highly qualified experts concentrates on the modern and advanced methods Human Factors and Voice Interactive Systems Daryle Gardner-Bonneau, Harry E. Blanchard, 2007-12-03 Human Factors and Voice Interactive Systems Second Edition provides in depth information on current topics of major interest to speech application developers and updates material from chapters that appeared in the previous edition The first nine chapters of the book cover issues related to interactive voice response systems including both mobile and multimodal device user interfaces as well as classic automated telephone systems The remaining chapters cover special topics including synthetic speech and the design of speech applications to enhance accessibility to people with disabilities and the ever growing population of older adults Human Factors and Voice Interactive Systems Second Edition is a collection of applied research and scholarly synthesis contributions by seasoned professionals in the field that highlight continuing efforts to study human interaction with speech technologies Foundations and Applications of Sensor Management Alfred Olivier Hero, David Castañón, Doug Cochran, Keith Kastella, 2007-10-23 This book covers control theory signal processing and relevant applications in a unified manner It introduces the area takes stock of advances and describes open problems and challenges in order to advance the field The editors and contributors to this book are pioneers in the area of active sensing and sensor management and represent the diverse communities that are targeted

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