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Information Theory

Coding Theorems for Discrete Memoryless Systems



SECOND EDITION

CAMBRIDGE

Information Theory Theorems Discrete Memoryless

Weili Wu,Zhongnan Zhang



Information Theory Theorems Discrete Memoryless:

Information Theory Imre Csiszár, János Körner, 2014-07-10 Information Theory Coding Theorems for Discrete Memoryless Systems presents mathematical models that involve independent random variables with finite range. This three chapter text specifically describes the characteristic phenomena of information theory. Chapter 1 deals with information measures in simple coding problems with emphasis on some formal properties of Shannon's information and the non block source coding. Chapter 2 describes the properties and practical aspects of the two terminal systems. This chapter also examines the noisy channel coding problem, the computation of channel capacity and the arbitrarily varying channels. Chapter 3 looks into the theory and practicality of multi terminal systems. This book is intended primarily for graduate students and research workers in mathematics, electrical engineering and computer science. New Concepts in Multi-User Communication J.K. Skwirzynski, 1981-10-31 Coding Theorems of Information Theory J. Wolfowitz, 2012-12-06 The objective of the present edition of this monograph is the same as that of earlier editions, namely to provide readers with some mathematical maturity, a rigorous and modern introduction to the ideas and principal theorems of probabilistic information theory. It is not necessary that readers have any prior knowledge whatever of information theory. The rapid development of the subject has had the consequence that any one book can now cover only a fraction of the literature. The latter is often written by engineers for engineers and the mathematical reader may have some difficulty with it. The mathematician who understands the content and methods of this monograph should be able to read the literature and start on research of his own in a subject of mathematical beauty and interest. The present edition differs from the second in the following: Chapter 6 has been completely replaced by one on arbitrarily varying channels; Chapter 7 has been greatly enlarged; Chapter 8 on semi continuous channels has been drastically shortened and Chapter 11 on sequential decoding completely removed. The new Chapters 11-15 consist entirely of material which has been developed only in the last few years. The topics discussed are rate distortion, source coding, multiple access channels and degraded broadcast channels. Even the specialist will find a new approach in the treatment of these subjects. Many of the proofs are new, more perspicuous and considerably shorter than the original ones. *Information Theory and Network Coding* Raymond W. Yeung, 2008-08-28 This book is an evolution from my book *A First Course in Information Theory* published in 2002 when network coding was still at its infancy. The last few years have witnessed the rapid development of network coding into a research field of its own in information science. With its roots in information theory, network coding has not only brought about a paradigm shift in network communications at large but also had significant influence on such specific research fields as coding theory, networking, switching, wireless communications, distributed data storage, cryptography and optimization theory. While new applications of network coding keep emerging, the fundamental results that lay the foundation of the subject are more or less mature. One of the main goals of this book therefore is to present these results in a unifying and coherent manner. While the previous book focused only on information theory for

discrete random variables the current book contains two new chapters on information theory for continuous random variables namely the chapter on differential entropy and the chapter on continuous valued channels With these topics included the book becomes more comprehensive and is more suitable to be used as a textbook for a course in an electrical engineering department

An Introduction to Single-User Information Theory Fady Alajaji, Po-Ning Chen, 2018-04-24 This book presents a succinct and mathematically rigorous treatment of the main pillars of Shannon's information theory discussing the fundamental concepts and indispensable results of Shannon's mathematical theory of communications It includes five meticulously written core chapters with accompanying problems emphasizing the key topics of information measures lossless and lossy data compression channel coding and joint source channel coding for single user point to point communications systems It also features two appendices covering necessary background material in real analysis and in probability theory and stochastic processes The book is ideal for a one semester foundational course on information theory for senior undergraduate and entry level graduate students in mathematics statistics engineering and computing and information sciences A comprehensive instructor's solutions manual is available

Information Theory for Electrical Engineers Orhan Gazi, 2018-03-09 This book explains the fundamental concepts of information theory so as to help students better understand modern communication technologies It was especially written for electrical and communication engineers working on communication subjects The book especially focuses on the understandability of the topics and accordingly uses simple and detailed mathematics together with a wealth of solved examples The book consists of four chapters the first of which explains the entropy and mutual information concept for discrete random variables Chapter 2 introduces the concepts of entropy and mutual information for continuous random variables along with the channel capacity In turn Chapter 3 is devoted to the typical sequences and data compression One of Shannon's most important discoveries is the channel coding theorem and it is critical for electrical and communication engineers to fully comprehend the theorem As such Chapter 4 solely focuses on it To gain the most from the book readers should have a fundamental grasp of probability and random variables otherwise they will find it nearly impossible to understand the topics discussed

Physical Layer Security for 6G Parthajit Mohapatra, Nikolaos Pappas, Arsenia Chorti, Stefano Tomasin, 2024-11-13 Meet the wireless security challenges of the future with this key volume The 6th generation of wireless communication technology known as 6G promises to bring both revolutionary advances and unique challenges Secure communications will be harder than ever to achieve under the new integrated ground air and space networking paradigm increased connectivity creates the potential for increased vulnerability Physical layer security which draws upon the physical properties of the channel or network to secure information has emerged as a promising solution to these challenges Physical Layer Security for 6G provides a working introduction to these technologies and their burgeoning wireless applications With particular attention to heterogeneous or distributed network scenarios this book offers both the information theory fundamentals and the most recent developments

in physical layer security It constitutes an essential resource for meeting the unique security challenges of 6G Physical Layer Security for 6G readers will also find Analysis of physical layer security in the quality of security framework QoSec Detailed discussion of physical layer security applications in visible light communication VLC intelligence reflecting surface IRS and more Practical use cases and demonstrations Physical Layer Security for 6G is ideal for wireless research engineers as well as advanced graduate students in wireless technology

Fundamentals of Wireless Communication David Tse, Pramod Viswanath, 2005-05-26 This textbook takes a unified view of the fundamentals of wireless communication and explains cutting edge concepts in a simple and intuitive way An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers

Communication Theory Dr. J. S. Chitode, 2021-01-01 Amplitude modulation and Angle modulation are discussed in first two chapters AM FM analysis equations modulators detectors transmission and reception are thoroughly presented SSB DSB VSB FDM are also discussed Noise theory is given in third chapter It includes random variables probability random processes and correlation functions Noise factor noise temperature and mathematical analysis of noise is presented Performance of modulation systems in the presence of noise is explained in fourth chapter Figure of merit capture effect and threshold effect are also presented Last chapter presents information theory Entropy information rate discrete memoryless source source coding Shannon's theorems are also given in detail Mutual information and channel capacity are also presented

JPEG2000 Standard for Image Compression Tinku Acharya, Ping-Sing Tsai, 2005-01-07 JPEG2000 Standard for Image Compression presents readers with the basic background to this multimedia compression technique and prepares the reader for a detailed understanding of the JPEG2000 standard using both the underlying theory and the principles behind the algorithms of the JPEG2000 standard for scalable image compression It introduces the VLSI architectures and algorithms for implementation of the JPEG2000 standard in hardware not available in the current literature an important technology for a number of image processing applications and devices such as digital camera color fax printer and scanners

Digital Microwave Communication Systems P.V. Sreekanth, 2003

A Dictionary of Computer Science Andrew Butterfield, Gerard Ekembe Ngondi, Anne Kerr, 2016-01-28 Previously named A Dictionary of Computing this bestselling dictionary has been renamed A Dictionary of Computer Science and fully revised by a team of computer specialists making it the most up to date and authoritative guide to computing available Containing over 6 500 entries and with expanded coverage of multimedia computer applications networking and personal computer science it is a comprehensive reference work encompassing all aspects of the subject and is as valuable for home and office users as it is indispensable for students of computer science Terms are defined in a jargon free and concise manner with helpful examples where relevant The dictionary contains approximately 150 new entries including cloud computing cross site scripting iPad semantic attack smartphone and virtual learning environment Recommended web links for many entries accessible via the Dictionary of Computer Science companion website provide

valuable further information and the appendices include useful resources such as generic domain names file extensions and the Greek alphabet This dictionary is suitable for anyone who uses computers and is ideal for students of computer science and the related fields of IT maths physics media communications electronic engineering and natural sciences

Algebraic and Stochastic Coding Theory Dave K. Kythe, Prem K. Kythe, 2017-07-28 Using a simple yet rigorous approach Algebraic and Stochastic Coding Theory makes the subject of coding theory easy to understand for readers with a thorough knowledge of digital arithmetic Boolean and modern algebra and probability theory It explains the underlying principles of coding theory and offers a clear detailed description of each code More advanced readers will appreciate its coverage of recent developments in coding theory and stochastic processes After a brief review of coding history and Boolean algebra the book introduces linear codes including Hamming and Golay codes It then examines codes based on the Galois field theory as well as their application in BCH and especially the Reed Solomon codes that have been used for error correction of data transmissions in space missions The major outlook in coding theory seems to be geared toward stochastic processes and this book takes a bold step in this direction As research focuses on error correction and recovery of erasures the book discusses belief propagation and distributions It examines the low density parity check and erasure codes that have opened up new approaches to improve wide area network data transmission It also describes modern codes such as the Luby transform and Raptor codes that are enabling new directions in high speed transmission of very large data to multiple users This robust self contained text fully explains coding problems illustrating them with more than 200 examples Combining theory and computational techniques it will appeal not only to students but also to industry professionals researchers and academics in areas such as coding theory and signal and image processing

Cognitive Wireless Communication Networks Ekram Hossain, Vijay K. Bhargava, 2007-10-23 A Brief Journey through Cognitive Wireless Communication Networks Ekram Hossain University of Manitoba Winnipeg Canada Vijay Bhargava University of British Columbia Vancouver Canada Introduction Cognitive radio has emerged as a promising technology for maximizing the utilization of the limited radio bandwidth while accommodating the increasing amount of services and applications in wireless networks A cognitive radio CR transceiver is able to adapt to the dynamic radio environment and the network parameters to maximize the utilization of the limited radio resources while providing flexibility in wireless access The key features of a CR transceiver are awareness of the radio environment in terms of spectrum usage power spectral density of transmitted received signals wireless protocol signaling and intelligence This intelligence is achieved through learning for adaptive tuning of system parameters such as transmit power carrier frequency and modulation strategy at the physical layer and higher layer protocol parameters Development of cognitive radio technology has to deal with technical and practical considerations which are highly multidisciplinary as well as regulatory requirements There is an increasing interest on this technology among the researchers in both academia and industry and the spectrum policy makers The key enabling techniques for cognitive radio networks also referred to as

dynamic spectrum access networks are wideband signal processing techniques for digital radio advanced wireless communications methods artificial intelligence and machine learning techniques and cognitive radio aware adaptive wireless mobile networking protocols

Introduction to Data Compression Khalid Sayood, 2017-10-23 Introduction to Data Compression Fifth Edition builds on the success of what is widely considered the best introduction and reference text on the art and science of data compression Data compression techniques and technology are ever evolving with new applications in image speech text audio and video This new edition includes all the latest developments in the field Khalid Sayood provides an extensive introduction to the theory underlying today's compression techniques with detailed instruction for their applications using several examples to explain the concepts Encompassing the entire field of data compression the book includes lossless and lossy compression Huffman coding arithmetic coding dictionary techniques context based compression and scalar and vector quantization The book provides a comprehensive working knowledge of data compression giving the reader the tools to develop a complete and concise compression package Explains established and emerging standards in depth including JPEG 2000 JPEG LS MPEG 2 H 264 JBIG 2 ADPCM LPC CELP MELP iLBC and the new HEVC standard Includes more coverage of lattices in vector quantization Contains improved and expanded end of chapter problems Source code is provided via a companion website that gives readers the opportunity to build their own algorithms and choose and implement techniques in their own applications

Research in Progress, 1980 *Research in Progress Between ... and* United States. Army Research Office, 1978

Combinatorial Optimization and Applications Weili Wu, Zhongnan Zhang, 2020-12-04 This volume constitutes the proceedings of the 14th International Conference on Combinatorial Optimization and Applications COCOA 2020 held in Dallas TX USA in December 2020 The 55 full papers presented in this volume were carefully reviewed and selected from 104 submissions The papers are grouped into the following topics Approximation Algorithms Scheduling Network Optimization Complexity and Logic Search Facility and Graphs Geometric Problem Solvers Vehicles and Graphs and Graph Problems Due to the Corona pandemic this event was held virtually

Data Mining Sushmita Mitra, Tinku Acharya, 2005-01-07 First title to ever present soft computing approaches and their application in data mining along with the traditional hard computing approaches Addresses the principles of multimedia data compression techniques for image video text and their role in data mining Discusses principles and classical algorithms on string matching and their role in data mining

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