

George Cybenko   Dianne P. O'Leary  
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Editors

# The Mathematics of Information Coding, Extraction, and Distribution



Springer

# Mathematics Of Information And Coding

**Robert J. McEliece**



## **Mathematics Of Information And Coding:**

*Mathematics of Information and Coding* Te Sun Han, Kingo Kobayashi, 2002 This book is intended to provide engineering and or statistics students communications engineers and mathematicians with the firm theoretic basis of source coding or data compression in information theory Although information theory consists of two main areas source coding and channel coding the authors choose here to focus only on source coding The reason is that in a sense it is more basic than channel coding and also because of recent achievements in source coding and compression An important feature of the book is that whenever possible the authors describe universal coding methods i e the methods that can be used without prior knowledge of the statistical properties of the data The authors approach the subject of source coding from the very basics to the top frontiers in an intuitively transparent but mathematically sound manner The book serves as a theoretical reference for communication professionals and statisticians specializing in information theory It will also serve as an excellent introductory text for advanced level and graduate students taking elementary or advanced courses in telecommunications electrical engineering statistics mathematics and computer science

**Information and Coding Theory** Gareth A. Jones, J. Mary Jones, 2012-12-06 As this Preface is being written the twentieth century is coming to an end Historians may perhaps come to refer to it as the century of information just as its predecessor is associated with the process of industrialisation Successive technological developments such as the telephone radio television computers and the Internet have had profound effects on the way we live We can see pictures of the surface of Mars or the early shape of the Universe The contents of a whole shelf load of library books can be compressed onto an almost weightless piece of plastic Billions of people can watch the same football match or can keep in instant touch with friends around the world without leaving home In short massive amounts of information can now be stored transmitted and processed with surprising speed accuracy and economy Of course these developments do not happen without some theoretical basis and as is so often the case much of this is provided by mathematics Many of the first mathematical advances in this area were made in the mid twentieth century by engineers often relying on intuition and experience rather than a deep theoretical knowledge to lead them to their discoveries Soon the mathematicians delighted to see new applications for their subject joined in and developed the engineers practical examples into wide ranging theories complete with definitions theorems and proofs

*Coding and Information Theory* Steven Roman, 1992-06-04 This book is an introduction to information and coding theory at the graduate or advanced undergraduate level It assumes a basic knowledge of probability and modern algebra but is otherwise self contained The intent is to describe as clearly as possible the fundamental issues involved in these subjects rather than covering all aspects in an encyclopedic fashion The first quarter of the book is devoted to information theory including a proof of Shannon's famous Noisy Coding Theorem The remainder of the book is devoted to coding theory and is independent of the information theory portion of the book After a brief discussion of general families of codes the author discusses linear codes including the Hamming Golay the

Reed Muller codes finite fields and cyclic codes including the BCH Reed Solomon Justesen Goppa and Quadratic Residue codes An appendix reviews relevant topics from modern algebra      **Coding and Information Theory** Richard Wesley Hamming,1980      The Theory of Information and Coding R. J. McEliece,2004-07-15 Student edition of the classic text in information and coding theory      The Theory of Information and Coding Robert J. McEliece,1977 This is a self contained introduction to the theory of information and coding It can be used either for self study or as the basis for a course at either the graduate or undergraduate level The text includes dozens of worked examples and several hundred problems for solution

**The Mathematics of Information Coding, Extraction and Distribution** George Cybenko,Dianne P. O'Leary,Jorma Rissanen,1998-12-07 High performance computing consumes and generates vast amounts of data and the storage retrieval and transmission of this data are major obstacles to effective use of computing power Challenges inherent in all of these operations are security speed reliability authentication and reproducibility This workshop focused on a wide variety of technical results aimed at meeting these challenges Topics ranging from the mathematics of coding theory to the practicalities of copyright preservation for Internet resources drew spirited discussion and interaction among experts in diverse but related fields We hope this volume contributes to continuing this dialogue      **Information-Spectrum Methods in Information Theory** Te Sun Han,2002-10-08 From the reviews This book nicely complements the existing literature on information and coding theory by concentrating on arbitrary nonstationary and or nonergodic sources and channels with arbitrarily large alphabets Even with such generality the authors have managed to successfully reach a highly unconventional but very fertile exposition rendering new insights into many problems MATHEMATICAL REVIEWS

Fundamentals of Information Theory and Coding Design Roberto Togneri,Christopher J.S deSilva,2003-01-13 Books on information theory and coding have proliferated over the last few years but few succeed in covering the fundamentals without losing students in mathematical abstraction Even fewer build the essential theoretical framework when presenting algorithms and implementation details of modern coding systems Without abandoning the theoret      **Information, Coding and Mathematics** Mario Blaum,Patrick G. Farrell,Henk C.A. van Tilborg,2013-03-09 Information Coding and Mathematics is a classic reference for both professional and academic researchers working in error correction coding and decoding Shannon theory cryptography digital communications information security and electronic engineering The work represents a collection of contributions from leading experts in turbo coding cryptography and sequences Shannon theory and coding bounds and decoding theory and applications All of the contributors have individually and collectively dedicated their work as a tribute to the outstanding work of Robert J McEliece Information Coding and Mathematics covers the latest advances in the widely used and rapidly developing field of information and communication technology      **Coding Theorems of Information Theory** Jacob Wolfowitz,2012-12-06 The imminent exhaustion of the first printing of this monograph and the kind willingness of the publishers have presented me with the opportunity to correct a few minor misprints and to make a

number of additions to the first edition. Some of these additions are in the form of remarks scattered throughout the monograph. The principal additions are Chapter 11, most of Section 6.6 including Theorem 6.6.2, Sections 6.7.7.7 and 4.9. It has been impossible to include all the novel and interesting results which have appeared in the last three years. I hope to include these in a new edition or a new monograph to be written in a few years when the main new currents of research are more clearly visible. There are now several instances where in the first edition only a weak converse was proved and in the present edition the proof of a strong converse is given. Where the proof of the weaker theorem employs a method of general application and interest it has been retained and is given along with the proof of the stronger result. This is wholly in accord with the purpose of the present monograph which is not only to prove the principal coding theorems but also while doing so to acquaint the reader with the most fruitful and interesting ideas and methods used in the theory. I am indebted to Dr. A. Student's *Guide to Coding and Information Theory*. Stefan M. Moser, Po-Ning Chen, 2012-01-26. This is a concise, easy to read guide introducing beginners to coding theory and information theory.

**Algebraic Coding Theory and Information Theory** Alexei Ashikhmin, Alexander Barg, Collected here are papers that were presented at or inspired by the DIMACS workshop Algebraic Coding Theory and Information Theory, Rutgers University, Piscataway, NJ. Among the topics discussed are universal data compression, graph theoretical ideas in the construction of codes and lattices, decoding algorithms and computation of capacity in various communications schemes. The book is suitable for graduate students and researchers interested in coding and information theory.

**The Mathematics of Information Coding, Extraction and Distribution**, 1997. In the last decade considerable engineering progress has been made in the technology of large scale information systems. We are now at the point where ambitious deployments of global information networks are soon to be realized but serious problems remain in the areas of scalability, modeling and applications. The workshop on The Mathematics of Information Coding, Extraction and Distribution brought together experts in various areas of mathematical and practical information theory and modeling to formulate the problems, explore new analytic methods and exchange ideas. We addressed applications areas such as data mining, compression, database theory and machine learning with special attention to the interactions between these areas from the analytical and mathematical points of view. The workshop devoted half time to dissemination of new technical results and half time to the formulation of new paradigms and problems for future research. Proceeding of the workshop is under preparation and will appear in the IMA Volumes in Mathematics and its Applications Series to be published by Springer Verlag, New York. Currently submissions are being edited, refereed by George Cybenko, Dianne O'Leary and Jorma Rissanen.

*Information Theory and Network Coding* Raymond W. Yeung, 2008-09-10. 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

*A First Course in Information Theory* Raymond W. Yeung, 2002-04-30 An introduction to information theory for discrete random variables Classical topics and fundamental tools are presented along with three selected advanced topics Yeung Chinese U of Hong Kong presents chapters on information measures zero error data compression weak and strong typicality the I measure Markov structures channel capacity rate distortion theory Blahut Arimoto algorithms information inequalities and Shannon type inequalities The advanced topics included are single source network coding multi source network coding and entropy and groups Annotation copyrighted by Book News Inc Portland OR

**Foundations of Coding** Jiri Adamek, 2011-02-14 Although devoted to constructions of good codes for error control secrecy or data compression the emphasis is on the first direction Introduces a number of important classes of error detecting and error correcting codes as well as their decoding methods Background material on modern algebra is presented where required The role of error correcting codes in modern cryptography is treated as are data compression and other topics related to information theory The definition theorem proof style used in mathematics texts is employed through the book but formalism is avoided wherever possible

Entropy and Information Theory Robert M. Gray, 2013-03-14 This book is devoted to the theory of probabilistic information measures and their application to coding theorems for information sources and noisy channels The eventual goal is a general development of Shannon's mathematical theory of communication but much of the space is devoted to the tools and methods required to prove the Shannon coding theorems These tools form an area common to ergodic theory and information theory and comprise several quantitative notions of the information in random variables random processes and dynamical systems Examples are entropy mutual information conditional entropy conditional information and discrimination or relative entropy along with the limiting normalized versions of these quantities such as entropy rate and information rate Much of the book is concerned with their properties especially the long term asymptotic behavior of sample information and expected information This is the only up to date treatment of traditional information theory emphasizing ergodic theory

Information, Coding and Mathematics Robert J. McEliece, 2002-05-31 Information Coding and Mathematics is a classic reference for both professional and academic researchers working in error correction coding and decoding Shannon theory cryptography digital communications information security and electronic

engineering The work represents a collection of contributions from leading experts in turbo coding cryptography and sequences Shannon theory and coding bounds and decoding theory and applications All of the contributors have individually and collectively dedicated their work as a tribute to the outstanding work of Robert J McEliece Information Coding and Mathematics covers the latest advances in the widely used and rapidly developing field of information and communication technology

*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

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