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Science The Mathematics Of Information Coding

The underlying concepts of information and information content of data make sense independently of computers, and are relevant in looking at the operation of natural languages such as English, and of other modes of operation by which people acquire and process data. The issue of efficiency is the obvious one: transmitting information costs time,

The Mathematics of Coding: Information, Compression, Error

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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

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Get this from a library! The Mathematics of Information Coding, Extraction and Distribution. [George Cybenko; Dianne P O'Leary; Jorma Rissanen] -- 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 ...

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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.

Mathematics of Information and Coding - Te Sun Han, Kingo

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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. Correspondences between variable length parsing and coding problems.-

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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

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intuitively transparent, but mathematically sound, manner.

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

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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.

This text is an elementary introduction to information and coding theory. The first part focuses on information theory, covering uniquely decodable and instantaneous codes,

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Huffman coding, entropy, information channels, and Shannon ' s Fundamental Theorem. In the second part, linear algebra is used to construct examples of such codes, such as the Hamming, Hadamard, Golay and Reed-Muller codes. Contains proofs, worked examples, and exercises.

This book is intended to introduce coding theory and information theory to undergraduate students of mathematics and computer science. It begins with a review of probability theory as applied to finite sample spaces and a general introduction to the nature and types of codes. The two subsequent chapters discuss information theory: efficiency of codes, the entropy of information sources, and Shannon's Noiseless Coding Theorem. The remaining three

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chapters deal with coding theory: communication channels, decoding in the presence of errors, the general theory of linear codes, and such specific codes as Hamming codes, the simplex codes, and many others.

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

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discussion and interaction among experts in diverse but related fields. We hope this volume contributes to continuing this dialogue.

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related fields. We hope this volume contributes to continuing this dialogue.

Many people do not realise that mathematics provides the foundation for the devices we use to handle information in the modern world. Most of those who do know probably think that the parts of mathematics involved are quite 'classical', such as Fourier analysis and differential equations. In fact, a great deal of the mathematical background is part of what used to be called 'pure' mathematics, indicating that it was created in order to deal with problems that originated within mathematics itself. It has taken many years for mathematicians to come to terms with this situation, and some of them are still not entirely happy about it.

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This book is an integrated introduction to Coding. By this I mean replacing symbolic information, such as a sequence of bits or a message written in a natural language, by another message using (possibly) different symbols. There are three main reasons for doing this: Economy (data compression), Reliability (correction of errors), and Security (cryptography). I have tried to cover each of these three areas in sufficient depth so that the reader can grasp the basic problems and go on to more advanced study. The mathematical theory is introduced in a way that enables the basic problems to be stated carefully, but without unnecessary abstraction. The prerequisites (sets and functions, matrices, finite probability) should be familiar to anyone who has taken a standard course in mathematical methods or discrete mathematics. A course in elementary

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Abstract algebra and/or number theory would be helpful, but the book contains the essential facts, and readers without this background should be able to understand what is going on. vi There are a few places where reference is made to computer algebra systems.

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

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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.

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

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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, Golary, 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.

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

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examples and several hundred problems for solution.

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