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Information theory studies the quantification, storage,  
and communication of information. It was originally  
proposed by Claude Shannon in 1948 to find  
fundamental limits on signal processing and  
communication operations such as data compression, in  
a landmark paper titled "A Mathematical Theory of  
Communication". Its impact has been crucial to the  
success of the Voyager missions to deep space ...

~~Information theory — Wikipedia~~

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information measures for abstract alphabets and their convergence properties. Many of the results herein are extensions of their generalizations of Shannon ' s original results. The mathematical models of this treatment are more general than traditional treatments in that nonstationary and nonergodic information

## ~~Entropy and Information Theory — Stanford EE~~

New measures would slow down the flow of information and make election misinformation less visible, according to people with knowledge of the matter. A protest in Washington on Wednesday.

## ~~Facebook, Alarmed by Discord Over Vote Count, Is Said to ...~~

The target audience of the information measures to be implemented through this call is the general public and/or related stakeholders. More specifically: For the general public: the objective is to raise public awareness of the results of Cohesion policy and their impact on citizens ' lives to Europeans who are unaware of the EU and of the EU action in their region.

## ~~CFPs: Support for Information Measures relating to EU ...~~

Call for proposals 2020 — Support for information measures relating to the EU Cohesion policy  
N2020CE16BAT099 New! Open! 5 hours ago. Official Launch: OJEU C 362, 28 October 2020 p. 4; Next Deadline: 12 January 2021 - in 2 months; Global Budget: 5 M€ Official page of the Call ...

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From the reviews: "Bioinformaticians are facing the challenge of how to handle immense amounts of raw data, [...] and render them accessible to scientists working on a wide variety of problems. [This book] can be such a tool." IEEE Engineering in Medicine and Biology

Analysis of information transfer has found rapid adoption in neuroscience, where a highly dynamic transfer of information continuously runs on top of the brain's slowly-changing anatomical connectivity. Measuring such transfer is crucial to understanding how flexible information routing and processing give rise to higher cognitive function. Directed Information Measures in Neuroscience reviews recent developments of concepts and tools for measuring information transfer, their application to neurophysiological recordings and analysis of interactions. Written by the most active researchers in the field the book discusses the state of the art, future prospects and challenges on the way to an efficient assessment of neuronal information transfer. Highlights include the theoretical quantification and practical estimation of information transfer, description of transfer locally in space and time, multivariate directed measures, information decomposition among a set of stimulus/responses variables and the relation between interventional and observational causality. Applications to neural data sets and pointers to open source software highlight the usefulness of these measures in experimental neuroscience. With state-of-the-art mathematical developments, computational techniques and applications to real data sets, this book will be of benefit to all graduate students and researchers

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interested in detecting and understanding the information transfer between components of complex systems.

"This book is highly recommended for all those whose interests lie in the fields that deal with any kind of information measures. It will also find readers in the field of functional analysis..".Mathematical Reviews

How should information be measured? That is the motivating question for this book. The concept of information has become so pervasive that people regularly refer to the present era as the Information Age. Information takes many forms: oral, written, visual, electronic, mechanical, electromagnetic, etc. Many recent inventions deal with the storage, transmission, and retrieval of information. From a mathematical point of view, the most basic problem for the field of information theory is how to measure information. In this book we consider the question: What are the most desirable properties for a measure of information to possess? These properties are then used to determine explicitly the most "natural" (i.e. the most useful and appropriate) forms for measures of information. This important and timely book presents a theory which is now essentially complete. The first book of its kind since 1975, it will bring the reader up to the current state of knowledge in this field.

Since the introduction of the information measure widely known as Shannon entropy, quantifiers based on information theory and concepts such as entropic forms and statistical complexities have proven to be useful in diverse scientific research fields. This book contains

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introductory tutorials suitable for the general reader, together with chapters dedicated to the basic concepts of the most frequently employed information measures or quantifiers and their recent applications to different areas, including physics, biology, medicine, economics, communication and social sciences. As these quantifiers are powerful tools for the study of general time and data series independently of their sources, this book will be useful to all those doing research connected with information analysis. The tutorials in this volume are written at a broadly accessible level and readers will have the opportunity to acquire the knowledge necessary to use the information theory tools in their field of interest.

Entropy, mutual information and divergence measure the randomness, dependence and dissimilarity, respectively, of random objects. In addition to their prominent role in information theory, they have found numerous applications, among others, in probability theory statistics, physics, chemistry, molecular biology, ecology, bioinformatics, neuroscience, machine learning, linguistics, and finance. Many of these applications require a universal estimate of information measures which does not assume knowledge of the statistical properties of the observed data. Over the past few decades, several nonparametric algorithms have been proposed to estimate information measures. Universal Estimation of Information Measures for Analog Sources presents a comprehensive survey of universal estimation of information measures for memoryless analog (real-valued or real vector-valued) sources with an emphasis on the estimation of mutual information and divergence and their applications. The

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book reviews the consistency of the universal algorithms and the corresponding sufficient conditions as well as their speed of convergence. Universal Estimation of Information Measures for Analog Sources provides a comprehensive review of an increasingly important topic in Information Theory. It will be of interest to students, practitioners and researchers working in Information Theory

This book gives a thorough and systematic introduction to the latest research results on hesitant fuzzy and its extensions decision making theory. It includes five chapters: Hesitant Fuzzy Set and its Extensions, Distance Measures for Hesitant Fuzzy Sets and Their Extensions, Similarity Measures for Hesitant Fuzzy Sets and Their Extensions, Entropy Measures for Hesitant Fuzzy Sets and Their Extensions, and Application of Information Measures in Multiple Criteria Decision Making. These methodologies are also implemented in various fields such as decision making, medical diagnosis, cluster analysis, environmental management, etc. This book is suitable for the engineers, technicians, and researchers in the fields of fuzzy mathematics, operations research, information science and management science and engineering, etc. It can also be used as a textbook for postgraduate and senior-year undergraduate students of the relevant professional institutions of higher learning.

This book develops applications of novel generalizations of fuzzy information measures in the field of pattern recognition, medical diagnosis, multi-criteria and multi-attribute decision making and suitability in linguistic variables. The focus of this

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presentation lies on introducing consistently strong and efficient generalizations of information and information-theoretic divergence measures in fuzzy and intuitionistic fuzzy environment covering different practical examples. The target audience comprises primarily researchers and practitioners in the involved fields but the book may also be beneficial for graduate students.

This book deals with measures of information (the most important ones being called entropies), their properties, and, reciprocally, with questions concerning which of these properties determine known measures of information, and which are the most general formulas satisfying reasonable requirements on practical measures of information. This is the first book investigating this subject in depth.

This book provides an up-to-date introduction to information theory. In addition to the classical topics discussed, it provides the first comprehensive treatment of the theory of I-Measure, network coding theory, Shannon and non-Shannon type information inequalities, and a relation between entropy and group theory. ITIP, a software package for proving information inequalities, is also included. With a large number of examples, illustrations, and original problems, this book is excellent as a textbook or reference book for a senior or graduate level course on the subject, as well as a reference for researchers in related fields.

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