

Key Papers in
The Development of
Information Theory

Edited by
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Thomas M. Cover,Joy A. Thomas,2012-11-28 The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book s tradition of clear thought provoking instruction Readers are provided once again with an instructive mix of mathematics physics statistics and information theory All the essential topics in information theory are covered in detail including entropy data compression channel capacity rate distortion network information theory and hypothesis testing The authors provide readers with a solid understanding of the underlying theory and applications Problem sets and a telegraphic summary at the end of each chapter further assist readers The historical notes that follow each chapter recap the main points The Second Edition features Chapters reorganized to improve teaching 200 new problems New material on source coding portfolio theory and feedback capacity Updated references Now current and enhanced the Second Edition of Elements of Information Theory remains the ideal textbook for upper level undergraduate and graduate courses in electrical engineering statistics and telecommunications

Formal Theories of Information Giovanni Sommaruga,2009-04-07 It is commonly assumed that computers process information But what is information In a technical important but nevertheless rather narrow sense Shannon information theory gives a

rstanswertothisquestion This theory focuses on measuring the information content of a message Essentially this measure is the reduction of the uncertainty obtained by receiving a message The uncertainty of a situation of ignorance in turn is measured by entropy This theory has had an immense impact on the technology of information storage data compression information transmission and coding and still is a very active domain of research Shannon s theory has also attracted much interest in a more philosophic look at information although it was readily remarked that it is only a syntactic theory of information and neglects semantic issues Several attempts have been made in philosophy to give information theory a semantic flavor but still mostly based on or at least linked to Shannon s theory Approaches to semantic

information theory also very often make use of formal logic Thereby information is linked to reasoning deduction and inference as well as to decision making Further entropy and related measures were soon found to have important connotations with regard to statistical inference Surely statistical data and observation represent information information about unknown hidden parameters Thus a whole branch of statistics developed around concepts of Shannon s information theory or derived from them Also some proper measurements appropriate for statistics like Fisher s information were proposed

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: Papers Read at a Symposium on 'information Theory' Held at the Royal Institution, London, August 20th to September 2nd 1960** C. Cherry, 1961

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