

Uncertainty-based information: original contributions

Information is transmitted through noisy communication channels: Ralph Hartley and Claude Shannon (at Bell Labs), the fathers of Information Theory, worked on the problem of efficiently transmitting information; i.e. decreasing the uncertainty in the transmission of information.



Hartley, R.V.L.,
"Transmission of
Information", *Bell
System Technical
Journal*, July 1928,
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pp. 379-423 and 623-656, July
and October, 1948.



Uncertainty Based Information Uncertainty Based Information

DJ Losen



Uncertainty Based Information Uncertainty Based Information:

Uncertainty-Based Information George J. Klir, Mark J. Wierman, 2013-06-05 Information is precious It reduces our uncertainty in making decisions Knowledge about the outcome of an uncertain event gives the possessor an advantage It changes the course of lives nations and history itself Information is the food of Maxwell's demon His power comes from knowing which particles are hot and which particles are cold His existence was paradoxical to classical physics and only the realization that information too was a source of power led to his taming Information has recently become a commodity traded and sold like orange juice or hog bellies Colleges give degrees in information science and information management Technology of the computer age has provided access to information in overwhelming quantity Information has become something worth studying in its own right The purpose of this volume is to introduce key developments and results in the area of generalized information theory a theory that deals with uncertainty based information within mathematical frameworks that are broader than classical set theory and probability theory The volume is organized as follows

Uncertainty and Information George J. Klir, 2005-11-22 Deal with information and uncertainty properly and efficiently using tools emerging from generalized information theory Uncertainty and Information Foundations of Generalized Information Theory contains comprehensive and up to date coverage of results that have emerged from a research program begun by the author in the early 1990s under the name generalized information theory GIT This ongoing research program aims to develop a formal mathematical treatment of the interrelated concepts of uncertainty and information in all their varieties In GIT as in classical information theory uncertainty predictive retrodictive diagnostic prescriptive and the like is viewed as a manifestation of information deficiency while information is viewed as anything capable of reducing the uncertainty A broad conceptual framework for GIT is obtained by expanding the formalized language of classical set theory to include more expressive formalized languages based on fuzzy sets of various types and by expanding classical theory of additive measures to include more expressive non additive measures of various types This landmark book examines each of several theories for dealing with particular types of uncertainty at the following four levels Mathematical formalization of the conceived type of uncertainty Calculus for manipulating this particular type of uncertainty Justifiable ways of measuring the amount of uncertainty in any situation formalizable in the theory Methodological aspects of the theory With extensive use of examples and illustrations to clarify complex material and demonstrate practical applications generous historical and bibliographical notes end of chapter exercises to test readers new found knowledge glossaries and an Instructor's Manual this is an excellent graduate level textbook as well as an outstanding reference for researchers and practitioners who deal with the various problems involving uncertainty and information An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

Type-2 Fuzzy Granular Models Mauricio A. Sanchez, Oscar Castillo, Juan R. Castro, 2016-08-26 In this book a series of granular algorithms are proposed A nature inspired

granular algorithm based on Newtonian gravitational forces is proposed A series of methods for the formation of higher type information granules represented by Interval Type 2 Fuzzy Sets are also shown via multiple approaches such as Coefficient of Variation principle of justifiable granularity uncertainty based information concept and numerical evidence based And a fuzzy granular application comparison is given as to demonstrate the differences in how uncertainty affects the performance of fuzzy information granules Advances and Applications of DSMT for Information Fusion (Collected Works, Volume 5)

Florentin Smarandache, Jean Dezert, Albena Tchamova, 2023-12-27 This fifth volume on Advances and Applications of DSMT for Information Fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics and is available in open access The collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs.unm.edu/DSMT/book4.pdf or www.onera.fr/sites/default/files/297_2015_DSMT_Book4.pdf in international conferences seminars workshops and journals or they are new The contributions of each part of this volume are chronologically ordered First Part of this book presents some theoretical advances on DSMT dealing mainly with modified Proportional Conflict Redistribution Rules PCR of combination with degree of intersection coarsening techniques interval calculus for PCR thanks to set inversion via interval analysis SIVIA rough set classifiers canonical decomposition of dichotomous belief functions fast PCR fusion fast inter criteria analysis with PCR and improved PCR5 and PCR6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their Matlab codes Because more applications of DSMT have emerged in the past years since the apparition of the fourth book of DSMT in 2015 the second part of this volume is about selected applications of DSMT mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection GPS systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identification of maritime vessels fusion of support vector machines SVM Silx Furtif RUST code library for information fusion including PCR rules and network for ship classification Finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 These contributions are related with decision making under uncertainty belief approximations probability transformations new distances between belief functions non classical multi criteria decision making problems with belief functions generalization of Bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classification and hybrid techniques mixing deep learning with belief functions as well We want to thank all the contributors of this fifth volume for their research works and their interests in the development of DSMT and the belief functions We are grateful as well to other colleagues for

encouraging us to edit this fifth volume and for sharing with us several ideas and for their questions and comments on DSMT through the years We thank the International Society of Information Fusion www.isif.org for diffusing main research works related to information fusion including DSMT in the international fusion conferences series over the years Florentin Smarandache is grateful to The University of New Mexico U S A that many times partially sponsored him to attend international conferences workshops and seminars on Information Fusion Jean Dezert is grateful to the Department of Information Processing and Systems DTIS of the French Aerospace Lab Office National d Etudes et de Recherches Aérospatiales Palaiseau France for encouraging him to carry on this research and for its financial support Albena Tchamova is first of all grateful to Dr Jean Dezert for the opportunity to be involved during more than 20 years to follow and share his smart and beautiful visions and ideas in the development of the powerful Dezert Smarandache Theory for data fusion She is also grateful to the Institute of Information and Communication Technologies Bulgarian Academy of Sciences for sponsoring her to attend international conferences on Information Fusion

Fuzzy Logic with Engineering Applications Timothy J. Ross, 2016-09-20 Explore the diverse electrical engineering application of polymer composite materials with this in depth collection edited by leaders in the field Polymer Composites for Electrical Engineering delivers a comprehensive exploration of the fundamental principles state of the art research and future challenges of polymer composites Written from the perspective of electrical engineering applications like electrical and thermal energy storage high temperature applications fire retardance power cables electric stress control and others the book covers all major application branches of these widely used materials Rather than focus on polymer composite materials themselves the distinguished editors have chosen to collect contributions from industry leaders in the area of real and practical electrical engineering applications of polymer composites The books relevance will only increase as advanced polymer composites receive more attention and interest in the area of advanced electronic devices and electric power equipment Unique amongst its peers Polymer Composites for Electrical Engineering offers readers a collection of practical and insightful materials that will be of great interest to both academic and industrial audiences Those resources include A comprehensive discussion of glass fiber reinforced polymer composites for power equipment including GIS bushing transformers and more Explorations of polymer composites for capacitors outdoor insulation electric stress control power cable insulation electrical and thermal energy storage and high temperature applications A treatment of semi conductive polymer composites for power cables In depth analysis of fire retardant polymer composites for electrical engineering An examination of polymer composite conductors Perfect for postgraduate students and researchers working in the fields of electrical electronic and polymer engineering Polymer Composites for Electrical Engineering will also earn a place in the libraries of those working in the areas of composite materials energy science and technology and nanotechnology

Discrete Event Modeling and Simulation Technologies Hessam S. Sarjoughian, Francois E. Cellier, 2013-03-09 The initial ideas behind this edited volume started in spring of 1998

some two years before the sixtieth birthday of Bernard P Zeigler The idea was to bring together distinguished researchers colleagues and former students of Professor Zeigler to present their latest findings at the AIS 2000 conference During the spring of 1999 the initial ideas evolved into creating a volume of articles surrounding seminal concepts pertaining to modeling and simulation as proposed developed and advocated by Professor Zeigler throughout his scientific career Also included would be articles describing progress covering related aspects of software engineering and artificial intelligence As this volume is emphasizing concepts and ideas spawned by the work of Bernard P Zeigler it is most appropriate to offer a biographical sketch of his scientific life thus putting into a historical perspective the contributions presented in this volume as well as new research directions that may lie ahead Bernard P Zeigler was born March 5 1940 in Montreal Quebec Canada where he obtained his bachelor s degree in engineering physics in 1962 from McGill University Two years later having completed his MS degree in electrical engineering at the Massachusetts Institute of Technology he spent a year at the National Research Council in Ottawa Returning to academia he became a Ph D student in computer and communication sciences at the University of Michigan Ann Arbor

Soft Computing and Signal Processing V. Sivakumar Reddy,V. Kamakshi Prasad,Jiacun Wang,K. T. V. Reddy,2020-03-13 This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Second International Conference on Soft Computing and Signal Processing ICSCSP 2019 The respective contributions address topics such as soft sets rough sets fuzzy logic neural networks genetic algorithms and machine learning and discuss various aspects of these topics e g technological considerations product implementation and application issues

Software Project Effort Estimation Adam Trendowicz,Ross Jeffery,2014-05-07 Software effort estimation is one of the oldest and most important problems in software project management and thus today there are a large number of models each with its own unique strengths and weaknesses in general and even more importantly in relation to the environment and context in which it is to be applied Trendowicz and Jeffery present a comprehensive look at the principles of software effort estimation and support software practitioners in systematically selecting and applying the most suitable effort estimation approach Their book not only presents what approach to take and how to apply and improve it but also explains why certain approaches should be used in specific project situations Moreover it explains popular estimation methods summarizes estimation best practices and provides guidelines for continuously improving estimation capability Additionally the book offers invaluable insights into project management in general discussing issues including project trade offs risk assessment and organizational learning Overall the authors deliver an essential reference work for software practitioners responsible for software effort estimation and planning in their daily work and who want to improve their estimation skills At the same time for lecturers and students the book can serve as the basis of a course in software processes software estimation or project management

Machine Intelligence Peter Sinc? k,J n Vas?c? k,Kaoru Hirota,2004 This book brings together the contributions of leading researchers in the field of

machine intelligence covering areas such as fuzzy logic neural networks evolutionary computation and hybrid systems There is wide coverage of the subject from simple tools through industrial applications to applications in high level intelligent systems which are biologically motivated such as humanoid robots and selected parts of these systems like the visual cortex Readers will gain a comprehensive overview of the issues in machine intelligence a field which promises to play a very important role in the information society of the future *Fuzzy Logic And Soft Computing* Bernadette

Bouchon-meunier, Ronlad R Yager, Lotfi A Zadeh, 1995-09-15 Soft computing is a new emerging discipline rooted in a group of technologies that aim to exploit the tolerance for imprecision and uncertainty in achieving solutions to complex problems The principal components of soft computing are fuzzy logic neurocomputing genetic algorithms and probabilistic reasoning This volume is a collection of up to date articles giving a snapshot of the current state of the field It covers the whole expanse from theoretical foundations to applications The contributors are among the world leaders in the field The

Knowledge-based Economy Loet Leydesdorff, 2006 Challenging theoretically rich yet anchored in detailed empirical analysis Loet Leydesdorff's exploration of the dynamics of the knowledge economy is a major contribution to the field Drawing on his expertise in science and technology studies systems theory and his internationally respected work on the triple helix the book provides a radically new modelling and simulation of knowledge systems capturing the articulation of structure communication and agency therein This work will be of immense interest to both theorists of the knowledge economy and practitioners in science policy Andrew Webster Science Technology Studies University of York UK

_____ This book is a ground breaking collection of theory and techniques to help understand the internal dynamics of the modern knowledge based economy including issues such as stability anticipation and interactions amongst components The combination of theory measurement and modelling gives the necessary power with which to address the complexity of modern networked social systems Each on its own would partly illuminate an innovation system but the combination sheds a far brighter light Mike Thelwall Information Science University of Wolverhampton UK

_____ The sociologist Niklas Luhmann is considered one of the few social scientists possibly able to explain a decisive event once it has happened In this book Loet Leydesdorff answers the challenge to take Luhmann's analysis one step further by introducing anticipation into the theory This book provides a fascinating exploration of the use of recursion and incursion to model social processes Dirk Baecker Sociology Universit t Witten Herdecke Germany

_____ How can an economy based on something as volatile as knowledge be sustained The urgency of improving our understanding of a knowledge based economy provides the context and necessity of this study In a previous study entitled *A Sociological Theory of Communications The Self Organization of the Knowledge based Society* 2001 the author specified knowledge based systems from a sociological perspective In this book he takes this theory one step further and demonstrates how the knowledge base of an economic system can be operationalized both in terms of

measurement and by providing simulation models **Modeling and Simulation Based Life-Cycle Engineering** Ken Chong, Harold S. Morgan, Sunil Saigal, Stefan Thynell, 2001-12-20 Advances in computational power have facilitated the development of simulations unprecedented in their computational size scope of technical issues spatial and temporal resolution complexity and comprehensiveness As a result complex structures from airplanes to bridges can be almost completely based on model based simulations This book gives a state of the art account of modeling and simulation of the life cycle of engineered systems covering topics of design fabrication maintenance and disposal Providing comprehensive coverage of this rapidly emerging field Modeling and Simulation Based Life Cycle Engineering is essential reading for civil mechanical and manufacturing engineers It will also appeal to students and academics in this area *Hands-On Prescriptive Analytics* Walter R. Paczkowski, 2024-10-17 Business decisions in any context operational tactical or strategic can have considerable consequences Whether the outcome is positive and rewarding or negative and damaging to the business its employees and stakeholders is unknown when action is approved These decisions are usually made under the proverbial cloud of uncertainty With this practical guide data analysts data scientists and business analysts will learn why and how maximizing positive consequences and minimizing negative ones requires three forms of rich information Descriptive analytics explores the results from an action what has already happened Predictive analytics focuses on what could happen The third prescriptive analytics informs us what should happen in the future While all three are important for decision makers the primary focus of this book is on the third prescriptive analytics Author Walter R Paczkowski Ph D shows you The distinction among descriptive predictive and prescriptive analytics How predictive analytics produces a menu of action options How prescriptive analytics narrows the menu of action options The forms of prescriptive analytics eight prescriptive methods Two broad classes of these methods non stochastic and stochastic How to develop prescriptive analyses for action recommendations Ways to use an appropriate tool set in Python *Praxiologies and the Philosophy of Economics* Josiah Lee Auspitz, This breakthrough volume integrates European British and American scholarship in advanced areas of philosophy and decision theory Contributions cover a broad area of economics from criticism of institutional economics to examination of the role of induction in economic forecasting **Multidisciplinary Design Optimization of Flight Vehicles** Wen Yao, Yong Zhao, Xiaohu Zheng, Ning Wang, 2025-09-26 This book systematically introduced the theory and application of Multidisciplinary Design Optimization MDO of flight vehicles The MDO theory part includes the background theoretical fundamentals MDO oriented modeling traditional machine learning methods and deep learning based approximation sequential approximation modeling sensitivity analysis optimization search strategies MDO optimization procedure and uncertainty based MDO The MDO application covers both subsystem and system examples including MDO of satellite inner instrument layout design structural topology optimization satellite system design on orbit servicing task optimization and MDO of missile and aircraft This book is characterized by the novelty and practicality with abundant contents and it is

written in an easy way for new learners It is used by researchers and engineering designers who are engaged in design of flight vehicles or other complex industrial systems And it is also used as textbook for graduate or undergraduate students majoring in flight vehicle design or related disciplines Economic Analysis for Ecosystem-based Management Daniel S.

Holland,2010 First Published in 2010 Routledge is an imprint of Taylor Francis an informa company **Practical**

Applications of Soft Computing in Engineering Sung-Bae Cho,2001 Soft computing has been presented not only with the theoretical developments but also with a large variety of realistic applications to consumer products and industrial systems Application of soft computing has provided the opportunity to integrate human like vagueness and real life uncertainty into an otherwise hard computer program This book highlights some of the recent developments in practical applications of soft computing in engineering problems All the chapters have been sophisticatedly designed and revised by international experts to achieve wide but in depth coverage Prioritization of Failure Modes in Manufacturing Processes Jagdeep

Singh,Harwinder Singh,Bhupinder Singh,2020-05-21 Failure Mode and Effect Analysis FMEA are used to assess investigate and predict the Risk Priority Number RPN of potential failures within the manufacturing industry The authors use fuzzy logic as a tool to overcome the vagueness associated with traditional methods of assessing potential failures *Communicating Science Effectively* National Academies of Sciences, Engineering, and Medicine,Division of Behavioral and Social Sciences and Education,Committee on the Science of Science Communication: A Research Agenda,2017-03-08 Science and technology are embedded in virtually every aspect of modern life As a result people face an increasing need to integrate information from science with their personal values and other considerations as they make important life decisions about medical care the safety of foods what to do about climate change and many other issues Communicating science effectively however is a complex task and an acquired skill Moreover the approaches to communicating science that will be most effective for specific audiences and circumstances are not obvious Fortunately there is an expanding science base from diverse disciplines that can support science communicators in making these determinations Communicating Science Effectively offers a research agenda for science communicators and researchers seeking to apply this research and fill gaps in knowledge about how to communicate effectively about science focusing in particular on issues that are contentious in the public sphere To inform this research agenda this publication identifies important influences psychological economic political social cultural and media related on how science related to such issues is understood perceived and used **Bridging Differences** William B.

Gudykunst,2003-08-11 Bridging Differences Effective Intergroup Communication is based on the assumption that the processes operating when we communicate with people from other groups are the same processes operating when we communicate with people from our own groups Author William B Gudykunst has written this book from the perspective of communicating with strangers and addresses how factors related to our group memberships e g inaccurate and unfavorable stereotypes of members of other cultures and ethnic groups can cause us to misinterpret the messages we receive from

members of those groups Designed for students taking courses in Intercultural Communication or Intergroup Communication
Bridging Differences is also useful for many courses in Cultural Studies Anthropology Sociology and Management

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