

MATHEMATICAL MODELLING: THEORY AND APPLICATIONS

MATHEMATICAL FOUNDATIONS OF INFORMATION RETRIEVAL

Sándor Dominich

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Mathematical Foundations Of Information Retrieval

**Leif Azzopardi, Gabriella Kazai, Stephen
Robertson, Stefan Rüger, Milad
Shokouhi, Dawei Song, Emine Yilmaz**

Mathematical Foundations Of Information Retrieval:

Mathematical Foundations of Information Retrieval S. Dominich, 2012-12-06 This book offers a comprehensive and consistent mathematical approach to information retrieval IR without which no implementation is possible and sheds an entirely new light upon the structure of IR models It contains the descriptions of all IR models in a unified formal style and language along with examples for each thus offering a comprehensive overview of them The book also creates mathematical foundations and a consistent mathematical theory including all mathematical results achieved so far of IR as a stand alone mathematical discipline which thus can be read and taught independently Also the book contains all necessary mathematical knowledge on which IR relies to help the reader avoid searching different sources Audience The book will be of interest to computer or information scientists librarians mathematicians undergraduate students and researchers whose work involves information retrieval Mathematical Foundations of Information Retrieval Alexander Kreithen, Documentation Incorporated, 2001

The Modern Algebra of Information Retrieval Sándor Dominich, 2008-04-03 This book takes a unique approach to information retrieval by laying down the foundations for a modern algebra of information retrieval based on lattice theory All major retrieval methods developed so far are described in detail along with Web retrieval algorithms and the author shows that they all can be treated elegantly in a unified formal way using lattice theory as the one basic concept The book's presentation is characterized by an engineering like approach **Mathematical Foundations of Information Retrieval** Zdzisław Pawlak, 1973

Rough Sets and Intelligent Systems - Professor Zdzisław Pawlak in Memoriam Andrzej Skowron, Zbigniew Suraj, 2012-08-16 This book is dedicated to the memory of Professor Zdzisław Pawlak who passed away almost six years ago He is the founder of the Polish school of Artificial Intelligence and one of the pioneers in Computer Engineering and Computer Science with worldwide influence He was a truly great scientist researcher teacher and a human being This book prepared in two volumes contains more than 50 chapters This demonstrates that the scientific approaches discovered by Professor Zdzisław Pawlak especially the rough set approach as a tool for dealing with imperfect knowledge are vivid and intensively explored by many researchers in many places throughout the world The submitted papers prove that interest in rough set research is growing and is possible to see many new excellent results both on theoretical foundations and applications of rough sets alone or in combination with other approaches We are proud to offer the readers this book **Advances in Information Retrieval Theory** Leif Azzopardi, Gabriella Kazai, Stephen Robertson, Stefan Rüger, Milad Shokouhi, Dawei Song, Emine Yilmaz, 2009-08-31

This book constitutes the refereed proceedings of the Second International Conference on the Theory of Information Retrieval ICTIR 2009 held in Cambridge UK in September 2009 The 18 revised full papers 14 short papers and 11 posters presented together with one invited talk were carefully reviewed and selected from 82 submissions The papers are categorized into four main themes novel IR models evaluation efficiency and new perspectives in IR Twenty one papers fall into the general theme of novel IR models ranging

from various retrieval models query and term selection models Web IR models developments in novelty and diversity to the modeling of user aspects There are four papers on new evaluation methodologies e g modeling score distributions evaluation over sessions and an axiomatic framework for XML retrieval evaluation Three papers focus on the issue of efficiency and offer solutions to improve the tractability of PageRank data cleansing practices for training classifiers and approximate search for distributed IR Finally four papers look into new perspectives of IR and shed light on some new emerging areas of interest such as the application and adoption of quantum theory in IR

The Geometry of Information Retrieval C. J. van Rijsbergen, 2004-08-12 Information retrieval IR the science of extracting information from any potential source can be viewed in a number of ways logical probabilistic and vector space models are some of the most important In this book the author one of the leading researchers in the area shows how these views can be reformed in the same framework used to formulate the general principles of quantum mechanics All the usual quantum mechanical notions have their IR theoretic analogues and the standard results can be applied to address problems in IR such as pseudo relevance feedback relevance feedback and ostensive retrieval The relation with quantum computing is also examined To keep the book self contained appendices with background material on physics and mathematics are included Each chapter ends with bibliographic remarks that point to further reading This is an important ground breaking book with much new material for all those working in IR AI and natural language processing

Andrzej Mostowski and Foundational Studies A. Ehrenfeucht, Andrzej Ehrenfeucht, V.W. Marek, M. Srebrny, 2008-03-06 Andrzej Mostowski was one of the leading 20th century logicians This volume examines his legacy devoted both to his scientific heritage and to the memory of him as a great researcher teacher organizer of science and person It includes the bibliography of Mostowski s writings

Mathematical Foundations of Computer Science Antoni Mazurkiewicz, Zdzisław Pawlak, 1977

New Frontiers in Scientific Discovery Zdzisław Pawlak, 2007 Zdzisław Pawlak is a great scientist and a great human being This volume contains a short perspective on the life and work of Zdzisław Pawlak It reflects the influence of a number of research initiatives by Pawlak in a whole range of research areas

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