MATHEMATICAL FOUNDATIONS OF INFORMATION RETRIEVAL

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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 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 reforged 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 **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 Zdzis l aw Pawlak who passed away almost six year 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 of Professor Zdzis l aw 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 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* Zdsisław Pawlak,1973 **Mathematical Foundations of Computer Science** Antoni Mazurkiewicz,Zdzisław Pawlak,1977 Mathematics for Classical Information Retrieval: Roots and Applications Dariush Alimohammadi,2010-06-01 This book is about Information Retrieval IR particularly Classical Information Retrieval CIR It looks at these topics through their mathematical roots The mathematical bases of CIR are briefly reviewed followed by the most important and interesting models of CIR including Boolean Vector Space and Probabilistic The primary goal of book is to create a context for understanding the principles of CIR by discussing its mathematical bases This book can be helpful for LIS students who are studying IR but have no knowledge of mathematics Weakness in math impairs the ability to understand current issues in IR While LIS students are the main target of this book it may be of interest to computer science and communications students as well **New Frontiers in Scientific Discovery** Zdzisław Pawlak,2007 Zdzislaw Pawlak is a great scientist and a great human being This volume contains a short perspective on the life and work of Zdzislaw Pawlak It reflects the influence of a number of research initiatives by Pawlak in a whole range of research areas *Transactions on Rough Sets V* ,2006-11-18 This book is dedicated to the monumental life work and creative genius of Zdzislaw Pawlak the originator of rough sets who passed away in April 2006 It opens with a commemorative article that gives a brief coverage of Pawlak s works in rough set theory molecular computing philosophy painting and poetry Fifteen papers explore the theory of rough sets in various domains as well as new applications of rough sets **Rough Sets and Current Trends in Computing** Salavatore Greco,Yukata Hata,Shoji Hirano,Masahiro Inuiguchi,Sadaaki Miyamoto,Hung Son Nguyen,Roman Slowiński,2006-10-26 This

book constitutes the refereed proceedings of the 5th International Conference on Rough Sets and Current Trends in Computing RSCTC 2006 held in Kobe Japan in November 2006 The 91 revised full papers presented together with five invited papers and two commemorative papers were carefully reviewed and selected from 332 submissions **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 His legacy is examined in this volume of papers devoted both to his extraordinary scientific heritage and to the memory of him as a great researcher teacher organizer of science and human Professor Mostowski pioneered and mastered many areas of mathematical logic His contributions spanned set theory recursion theory and model theory the backbone of foundations of mathematics He is best known of the Kleene Mostowski and Davis Mostowski hierarchies of properties of integers reflecting the complexity of their definitions and of the very elegant concept of a generalized quantifier which inspired and keeps stimulating a stream of deep work on fundamental issues of logics deduction and reasoning both in mathematics and in computer science and also of the contributions and excellent lectures on undecidability unprovability consistency and independence of various statements in set theory and arithmetic following G del Tarski and Cohen The overall content of the volume is designed to cover the current main streams in the field For many years after WWII especially in the late sixties till his untimely death in 1975 Warsaw where he led the centre of foundational studies was a place where many leading logicians visited studied and started their career Their memories form an important part of this volume attempting to bring back the extraordinary achievements and personality of Mostowski *Rough Sets and Knowledge Technology* Guoyin Wang,2006-07-06 This book constitutes the refereed proceedings of the First International Conference on Rough Sets and Knowledge Technology RSKT 2006 held in Chongqing China in July 2006 The volume presents 43 revised full papers and 58 revised short papers together with 15 commemorative and invited papers Topics include rough computing evolutionary computing fuzzy sets granular computing neural computing machine learning and KDD logics and reasoning multiagent systems and Web intelligence and more Database and Expert Systems Applications Stephen W. Liddle,Klaus-Dieter Schewe,A Min Tjoa,Xiaofang Zhou,2012-08-20 This two volume set LNCS 7446 and LNCS 7447 constitutes the refereed proceedings of the 23rd International Conference on Database and Expert Systems Applications DEXA 2012 held in Vienna Austria September 3 6 2012 The 49 revised full papers presented together with 37 short papers and 2 keynote talks were carefully reviewed and selected from 179 submissions These papers discuss a range of topics including database query processing in particular XML queries labelling of XML documents computational efficiency data extraction personalization preferences and ranking security and privacy database schema evaluation and evolution semantic Web privacy and provenance data mining data streaming distributed systems searching and query answering structuring compression and optimization failure fault analysis and uncertainty predication extraction and annotation ranking and personalisation database partitioning and performance measurement recommendation and

prediction systems business processes social networking **Information Retrieval Models** Thomas Roelleke,2022-05-31 Information Retrieval IR models are a core component of IR research and IR systems The past decade brought a consolidation of the family of IR models which by 2000 consisted of relatively isolated views on TF IDF Term Frequency times Inverse Document Frequency as the weighting scheme in the vector space model VSM the probabilistic relevance framework PRF the binary independence retrieval BIR model BM25 Best Match Version 25 the main instantiation of the PRF BIR and language modelling LM Also the early 2000s saw the arrival of divergence from randomness DFR Regarding intuition and simplicity though LM is clear from a probabilistic point of view several people stated It is easy to understand TF IDF and BM25 For LM however we understand the math but we do not fully understand why it works This book takes a horizontal approach gathering the foundations of TF IDF PRF BIR Poisson BM25 LM probabilistic inference networks PIN s and divergence based models The aim is to create a consolidated and balanced view on the main models A particular focus of this book is on the relationships between models This includes an overview over the main frameworks PRF logical IR VSM generalized VSM and a pairing of TF IDF with other models It becomes evident that TF IDF and LM measure the same namely the dependence overlap between document and query The Poisson probability helps to establish probabilistic non heuristic roots for TF IDF and the Poisson parameter average term frequency is a binding link between several retrieval models and model parameters Table of Contents List of Figures Preface Acknowledgments Introduction Foundations of IR Models Relationships Between IR Models Summary Research Outlook Bibliography Author s Biography Index Thriving Rough Sets Guoyin Wang,Andrzej Skowron,Yiyu Yao,Dominik Ślęzak,Lech Polkowski,2017-04-28 This special book is dedicated to the memory of Professor Zdzis aw Pawlak the father of rough set theory in order to commemorate both the 10th anniversary of his passing and 35 years of rough set theory The book consists of 20 chapters distributed into four sections which focus in turn on a historical review of Professor Zdzis aw Pawlak and rough set theory a review of the theory of rough sets the state of the art of rough set theory and major developments in rough set based data mining approaches Apart from Professor Pawlak s contributions to rough set theory other areas he was interested in are also included Moreover recent theoretical studies and advances in applications are also presented The book will offer a useful guide for researchers in Knowledge Engineering and Data Mining by suggesting new approaches to solving the problems they encounter

Deductive and Object-Oriented Databases Tok W. Ling,Alberto O. Mendelzon,Laurent Vieille,1995-11-15 This book constitutes the refereed proceedings of the 4th International Conference on Deductive and Object Oriented Databases DOOD 95 held in Singapore in December 1995 Besides two keynote papers by Stefano Ceri and Michael Kifer the book contains revised full versions of 28 papers selected from a total of 88 submissions The volume gives a highly competent state of the art report on DOOD research and advanced applications The papers are organized in sections on active databases query processing semantic query optimization transaction management authorization implementation and applications

Advances in Information Retrieval Pavel Serdyukov,Pavel Braslavski,Sergei O. Kuznetsov,Jaap Kamps,Stefan Rüger,Eugene Agichtein,Ilya Segalovich,Emine Yilmaz,2013-03-12 This book constitutes the proceedings of the 35th European Conference on IR Research ECIR 2013 held in Moscow Russia in March 2013 The 55 full papers 38 poster papers and 10 demonstrations presented in this volume were carefully reviewed and selected from 287 submissions The papers are organized in the following topical sections user aspects multimedia and cross media IR data mining IR theory and formal models IR system architectures classification Web event detection temporal IR and microblog search Also included are 4 tutorial and 2 workshop presentations   **Teaching and Learning in Information Retrieval** Efthimis Efthimiadis,Juan M. Fernández-Luna,Juan F. Huete,Andrew MacFarlane,2011-10-06 Information Retrieval has become a very active research field in the 21st century Many from academia and industry present their innovations in the field in a wide variety of conferences and journals Companies transfer this new knowledge directly to the general public via services such as web search engines in order to improve their information seeking experience In parallel teaching IR is turning into an important aspect of IR generally not only because it is necessary to impart effective search techniques to make the most of the IR tools available but also because we must provide a good foundation for those students who will become the driving force of future IR technologies There are very few resources for teaching and learning in IR the major problem which this book is designed to solve The objective is to provide ideas and practical experience of teaching and learning IR for those whose job requires them to teach in one form or another and where delivering IR courses is a major part of their working lives In this context of providing a higher profile for teaching and learning as applied to IR the co editor of this book Efthimis Efthimiathis had maintained a leading role in teaching and learning within the domain of IR for a number of years This book represents a posthumous example of his efforts in the area as he passed away in April 2011 This book his book is dedicated to his memory

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