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AND SOFT COMPUTING

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Enrique Herrera-Viedma  
Gabriella Pasi · Fabio Crestani  
Editors

# Soft Computing in Web Information Retrieval

Models  
and Applications



Springer

# Soft Computing In Information Retrieval

**Yap Peng Tan, Kim-Hui Yap, Lipo Wang**

## Soft Computing In Information Retrieval:

**Soft Computing in Information Retrieval** Fabio Crestani, Gabriella Pasi, 2000-05-26 Information retrieval IR aims at defining systems able to provide a fast and effective content based access to a large amount of stored information The aim of an IR system is to estimate the relevance of documents to users information needs expressed by means of a query This is a very difficult and complex task since it is pervaded with imprecision and uncertainty Most of the existing IR systems offer a very simple model of IR which privileges efficiency at the expense of effectiveness A promising direction to increase the effectiveness of IR is to model the concept of partially intrinsic in the IR process and to make the systems adaptive i e able to learn the user s concept of relevance To this aim the application of soft computing techniques can be of help to obtain greater flexibility in IR systems

*Fuzzy Information Retrieval* Donald H. Kraft, Erin Colvin, 2017-01-23 Information retrieval used to mean looking through thousands of strings of texts to find words or symbols that matched a user s query Today there are many models that help index and search more effectively so retrieval takes a lot less time Information retrieval IR is often seen as a subfield of computer science and shares some modeling applications storage applications and techniques as do other disciplines like artificial intelligence database management and parallel computing This book introduces the topic of IR and how it differs from other computer science disciplines A discussion of the history of modern IR is briefly presented and the notation of IR as used in this book is defined The complex notation of relevance is discussed Some applications of IR is noted as well since IR has many practical uses today Using information retrieval with fuzzy logic to search for software terms can help find software components and ultimately help increase the reuse of software This is just one practical application of IR that is covered in this book Some of the classical models of IR is presented as a contrast to extending the Boolean model This includes a brief mention of the source of weights for the various models In a typical retrieval environment answers are either yes or no i e on or off On the other hand fuzzy logic can bring in a degree of match vs a crisp i e strict match This too is looked at and explored in much detail showing how it can be applied to information retrieval Fuzzy logic is often times considered a soft computing application and this book explores how IR with fuzzy logic and its membership functions as weights can help indexing querying and matching Since fuzzy set theory and logic is explored in IR systems the explanation of where the fuzz is ensues The concept of relevance feedback including pseudorelevance feedback is explored for the various models of IR For the extended Boolean model the use of genetic algorithms for relevance feedback is delved into The concept of query expansion is explored using rough set theory Various term relationships is modeled and presented and the model extended for fuzzy retrieval An example using the UMLS terms is also presented The model is also extended for term relationships beyond synonyms Finally this book looks at clustering both crisp and fuzzy to see how that can improve retrieval performance An example is presented to illustrate the concepts

[Soft Computing in Web Information Retrieval](#) Enrique Herrera-Viedma, Gabriella Pasi, Fabio Crestani, 2008-08-15 This book presents recent studies on the application of

Soft Computing techniques in information access on the World Wide Web The book is divided in four parts reflecting the areas of research of the presented works such as Document Classification Semantic Web Web Information Retrieval and Web Applications The text demonstrates that Web Information Retrieval is a stimulating area of research where Soft Computing technologies can be applied satisfactorily Soft Computing in Information Retrieval Fabio Crestani, Gabriella Pasi, 2014-01-15 Soft Computing for Information Processing and Analysis Masoud Nikravesh, Lotfi A. Zadeh, 2006-07-02 Search engines with Google at the top have become the most heavily used online service with millions of searches performed every day and many remarkable capabilities Soft Computing for Information Processing and Analysis includes reports from the front of soft computing in the internet industry and imparts knowledge and understanding of the significance of the field's accomplishments new developments and future directions This carefully edited book has evolved from presentations made by the participants of a meeting entitled Fuzzy Logic and the Internet Enhancing the Power of the Internet organized by the Berkeley Initiative in Soft Computing BISC University of California Berkeley It addresses the important topics of modern search engines such as fuzzy query decision analysis and support systems including articles about topics such as Web Intelligence World Knowledge and Fuzzy Logic by Lotfi A Zadeh perception based information processing or web intelligence

**Soft Computing in Web Information Retrieval** Enrique Herrera-Viedma, Gabriella Pasi, Fabio Crestani, 2009-09-02 This book presents recent studies on the application of Soft Computing techniques in information access on the World Wide Web The book is divided in four parts reflecting the areas of research of the presented works such as Document Classification Semantic Web Web Information Retrieval and Web Applications The text demonstrates that Web Information Retrieval is a stimulating area of research where Soft Computing technologies can be applied satisfactorily Applications of Soft Computing for the Web Rashid Ali, MM Sufyan Beg, 2018-01-08 This book discusses the applications of different soft computing techniques for the web based systems and services The respective chapters highlight recent developments in the field of soft computing applications from web based information retrieval to online marketing and online healthcare In each chapter author endeavor to explain the basic ideas behind the proposed applications in an accessible format for readers who may not possess a background in these fields This carefully edited book covers a wide range of new applications of soft computing techniques in Web recommender systems Online documents classification Online documents summarization Online document clustering Online market intelligence Web usage profiling Web data extraction Social network extraction Question answering systems Online health care Web knowledge management Multimedia information retrieval Navigation guides User profiles extraction Web based distributed information systems Web security applications Internet of Things Applications and so on The book is aimed for researchers and practitioner who are engaged in developing and applying intelligent systems principles for solving real life problems Further it has been structured so that each chapter can be read independently of the others **Efficient Information Retrieval Using Soft Computing Techniques** Bhatnagar

Pragati,2015-07-27 The book entitled Efficient Information Retrieval Using Soft Computing Techniques explores the use of Soft Computing technique for designing efficient retrieval system In past few decades information collection and storage efforts have become easier but efforts required to retrieve relevant information have become significantly cumbersome especially in textual databases Thus designing an efficient Information retrieval system is challenging task and an important area of research Only users with extensive subject area knowledge and systems knowledge are capable to manoeuvre and explore from these databases In spite of the work done in the field of Information Retrieval there is a large scope in this field in order to improve the efficiency of an IRS Naturally research on information models that can effectively rank search results according to document relevance has become a fundamental subject of interest Thus the Book targets an important area of research *Soft Computing Applications to Intelligent Information Retrieval on the Internet* O. Cordón,E.

Herrera-Viedma,Spanish Conference on Evolutionary and Bioinspired Algorithms,2003 **Soft Computing** ,2005 Soft

Computing Applications and Intelligent Systems Shahrul Azman Noah,Siti Norul Huda Sheikh Abdullah,Haslina

Arshad,Azuraliza Abu Bakar,Zulaiha Ali Othman,Kairuddin Omar,Zalinda Othman,2013-08-16 This book constitutes the refereed proceedings of the International Second International Multi Conference on Artificial Intelligence Technology M CAIT 2013 held in Shah Alam in August 2013 The 25 revised full papers presented were carefully reviewed and selected from 110 submissions M CAIT 2013 hosted four special tracks in a single event Intelligence Computation on Pattern Analysis and Robotics ICPAIR 2013 Data Mining and Optimization DMO 2013 Semantic Technology and Information Retrieval STAIR 2013 and Industrial Computing Applied Informatics IComp 2013 The papers address issues of state of the art research development implementation and applications within the four focus areas in CAIT pattern recognition data mining and optimization knowledge technology and industrial computing Soft Computing Applications in Business Bhanu

Prasad,2008-04-29 Soft computing techniques are widely used in most businesses This book consists of several important papers on the applications of soft computing techniques for the business field The soft computing techniques used in this book include or very closely related to Bayesian networks biclustering methods case based reasoning data mining Dempster Shafer theory ensemble learning evolutionary programming fuzzy decision trees hidden Markov models intelligent agents k means clustering maximum likelihood Hebbian learning neural networks opportunistic scheduling probability distributions combined with Monte Carlo methods rough sets self organizing maps support vector machines uncertain reasoning other statistical and machine learning techniques and combinations of these techniques The businesses or business problems addressed in this book include or very closely related to analysis of correlations between currency exchange rates analysis of USA banks and Moody s bank financial strength rating arrears management business risk identification company audit fee evaluation dental treatments business internal control intelligent tutoring systems and educational assessment modeling agent behavior motor insurance industry personal loan defaults pricing strategies for increasing the market share pricing

strategies in supply chain management probabilistic sales forecasting user relevance feedback analysis for online text retrieval and world crude oil spot price forecasting

**Handbook of Granular Computing** Witold Pedrycz, Andrzej Skowron, Vladik Kreinovich, 2008-07-31 Although the notion is a relatively recent one the notions and principles of Granular Computing GrC have appeared in a different guise in many related fields including granularity in Artificial Intelligence interval computing cluster analysis quotient space theory and many others Recent years have witnessed a renewed and expanding interest in the topic as it begins to play a key role in bioinformatics e commerce machine learning security data mining and wireless mobile computing when it comes to the issues of effectiveness robustness and uncertainty The Handbook of Granular Computing offers a comprehensive reference source for the granular computing community edited by and with contributions from leading experts in the field Includes chapters covering the foundations of granular computing interval analysis and fuzzy set theory hybrid methods and models of granular computing and applications and case studies Divided into 5 sections Preliminaries Fundamentals Methodology and Algorithms Development of Hybrid Models and Applications and Case Studies Presents the flow of ideas in a systematic well organized manner starting with the concepts and motivation and proceeding to detailed design that materializes in specific algorithms applications and case studies Provides the reader with a self contained reference that includes all pre requisite knowledge augmented with step by step explanations of more advanced concepts The Handbook of Granular Computing represents a significant and valuable contribution to the literature and will appeal to a broad audience including researchers students and practitioners in the fields of Computational Intelligence pattern recognition fuzzy sets and neural networks system modelling operations research and bioinformatics

*Intelligent Exploration of the Web* Piotr S. Szczepaniak, Javier Segovia, Lotfi A. Zadeh, 2002-11-26 The Web is the nervous system of information society As such it has a pervasive influence on our daily lives And yet in some ways the Web does not have a high MIQ Machine IQ What can be done to enhance it This is the leitmotif of Intelligent Exploration of the Web IEW a collection of articles co edited by Drs Szczepaniak Segovia Kacprzyk and to a small degree myself The articles that comprise IEW address many basic problems ranging from structure analysis of Internet documents and Web dialogue management to intelligent Web agents for extraction of information and bootstrapping an ontology based information extraction system Among the basic problems one that stands out in importance is the problem of search Existing search engines have many remarkable capabilities But what is not among them is the deduction capability the capability to answer a query by drawing on information which resides in various parts of the knowledge base An example of a query might be How many Ph D degrees in computer science were granted by European universities in 1996 No existing search engine is capable of dealing with queries of comparable or even much lower complexity Basically what we would like to do is to add deduction capability to a search engine with the aim of transforming it into a question answering system or a QI A system for short This is a problem that is of major importance and a challenge that is hard to meet

**Soft Computing in Ontologies**

**and Semantic Web** Zongmin Ma,2007-08-13 This book covers in a great depth the fast growing topic of tools techniques and applications of soft computing e g fuzzy logic genetic algorithms neural networks rough sets Bayesian networks and other probabilistic techniques in the ontologies and Semantic Web How components of the Semantic Web like the RDF Description Logics ontologies can be covered with a soft computing focus is shown The book aims to provide a single account of current studies in soft computing approaches to the ontologies and the Semantic Web The objective of the book is to provide the state of the art information to researchers practitioners and graduate students of the Web intelligence and at the same time serving the information technology professional faced with non traditional applications that make the application of conventional approaches difficult or impossible *Fuzzy Sets and Their Extensions: Representation, Aggregation and Models* Humberto Bustince,Francisco Herrera,Javier Montero,2007-10-30 This carefully edited book presents an up to date state of current research in the use of fuzzy sets and their extensions It pays particular attention to foundation issues and to their application to four important areas where fuzzy sets are seen to be an important tool for modeling and solving problems The book s 34 chapters deal with the subject with clarity and effectiveness They include four review papers introducing some non standard representations *Artificial Intelligence and Soft Computing, Part I* Leszek Rutkowski,Rafal Scherer,Ryszard Tadeusiewicz,Lotfi A. Zadeh,Jacek M. Zurada,2010-06 This volume constitutes the proceedings of the 10th International Conference on Artificial Intelligence and Soft Computing ICAISC 2010 held in Zakopane Poland in June 13 17 2010 The articles are organized in topical sections on Fuzzy Systems and Their Applications Data Mining Classification and Forecasting Image and Speech Analysis Bioinformatics and Medical Applications Volume 6113 together with Neural Networks and Their Applications Evolutionary Algorithms and Their Applications Agent System Robotics and Control Various Problems aof Artificial Intelligence Volume 6114 *Intelligent Multimedia Processing with Soft Computing* Yap Peng Tan,Kim-Hui Yap,Lipo Wang,2004-10-20 Soft computing represents a collection of techniques such as neural networks evolutionary computation fuzzy logic and probabilistic reasoning As posed to conventional hard computing these techniques tolerate imprecision and uncertainty similar to human beings In the recent years successful applications of these powerful methods have been published in many disciplines in numerous journals conferences as well as the excellent books in this book series on Studies in Fuzziness and Soft Computing This volume is dedicated to recent novel applications of soft computing in multimedia processing The book is composed of 21 chapters written by experts in their respective fields addressing various important and timely problems in multimedia computing such as content analysis indexing and retrieval recognition and compression processing and filtering etc In the chapter authored by Guan Muneesawang Lay Amin and Lee a radial basis function network with Laplacian mixture model is employed to perform image and video retrieval D Androutsos P Androutsos Plataniotis and Venetsanopoulos investigate color image indexing and retrieval within a small world framework Wu and Yap develop a framework of fuzzy relevance feedback to model the uncertainty of users subjective perception in image retrieval

Advances in Soft Computing Grigori Sidorov, Arturo Hernández Aguirre, Carlos Alberto Reyes Garcia, 2010-10-21 This two volume set LNAI 6437 and 6438 constitutes the refereed proceedings of the 9th Mexican International Conference on Artificial Intelligence MICAI 2010 held in Pachuca Mexico in November 2010 Based on rigorous peer reviews the program committee carefully selected 82 revised papers from 301 submissions for presentation in two volumes The second volume includes 44 papers focusing on soft computing The papers are organized in topical sections on machine learning and pattern recognition automatic learning for natural language processing evolutionary algorithms and other naturally inspired algorithms hybrid intelligent systems and neural networks and fuzzy logic

**Proceedings of the IASTED International Conference, Artificial Intelligence and Soft Computing, July 27 to August 1 1997, Banff, Canada** M. H. Hamza, International Association of Science and Technology for Development, 1997

## The Enigmatic Realm of **Soft Computing In Information Retrieval**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Soft Computing In Information Retrieval** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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