

## Advances In Automatic Text Summarization

The Encyclopedia of Library and Information Sciences, comprising of seven volumes, now in its fourth edition, compiles the contributions of major researchers and practitioners and explores the cultural institutions of more than 30 countries. This major reference presents over 550 entries extensively reviewed for accuracy in seven print volumes or online. The new fourth edition, which includes 55 new entries and 60 revised entries, continues to reflect the growing convergence among the disciplines that influence information and the cultural record, with coverage of the latest topics as well as classic articles of historical and theoretical importance.

With the explosion in the quantity of on-line text and multimedia information in recent years, there has been a renewed interest in automatic summarization. This book provides a systematic introduction to the field, explaining basic definitions, the strategies used by human summarizers, and automatic methods that leverage linguistic and statistical knowledge to produce extracts and abstracts. Drawing from a wealth of research in artificial intelligence, natural language processing, and information retrieval, the book also includes detailed assessments of evaluation methods and new topics such as multi-document and multimedia summarization. Previous automatic summarization books have been either collections of specialized papers, or else authored books with only a chapter or two devoted to the field as a whole. This is the first textbook on the subject, developed based on teaching materials used in two one-semester courses. To further help the student reader, the book includes detailed case studies, accompanied by end-of-chapter reviews and an extensive glossary. Audience: students and researchers, as well as information technology managers, librarians, and anyone else interested in the subject.

The marketing of a destination necessitates strategic planning, decision making, and organization. Effective positioning will result in a strong brand that develops an emotional and productive two-way relationship. Notwithstanding, destination managers should possess relevant knowledge and understanding on traditional and contemporary marketing channels to better engage with prospective visitors. Destination Management and Marketing: Breakthroughs in Research and Practice focuses on utilizing destination branding and content marketing for sustainable growth and competitive advantage within the tourism and hospitality industry, including tools and techniques for travel branding and best practices for better tourism management strategies. Highlighting a range of topics such as service quality, sustainable tourism, and competitiveness model, this publication is an ideal reference source for government officials, travel agencies, advertisers, marketers, tour directors, hotel managers, restaurateurs, industry professionals including those within the hotel, leisure, transportation, and theme park sectors, policymakers, practitioners, academicians, researchers,

and students.

This book presents a collection of high-quality, peer-reviewed research papers from the 6th International Conference on Information System Design and Intelligent Applications (INDIA 2019), held at Lendi Institute of Engineering & Technology, India, from 1 to 2 November 2019. It covers a wide range of topics in computer science and information technology, including data mining and data warehousing, high-performance computing, parallel and distributed computing, computational intelligence, soft computing, big data, cloud computing, grid computing and cognitive computing.

Natural language processing (NLP) is a branch of artificial intelligence that has emerged as a prevalent method of practice for a sizeable amount of companies. NLP enables software to understand human language and process complex data that is generated within businesses. In a competitive market, leading organizations are showing an increased interest in implementing this technology to improve user experience and establish smarter decision-making methods. Research on the application of intelligent analytics is crucial for professionals and companies who wish to gain an edge on the opposition. The Handbook of Research on Natural Language Processing and Smart Service Systems is a collection of innovative research on the integration and development of intelligent software tools and their various applications within professional environments. While highlighting topics including discourse analysis, information retrieval, and advanced dialog systems, this book is ideally designed for developers, practitioners, researchers, managers, engineers, academicians, business professionals, scholars, policymakers, and students seeking current research on the improvement of competitive practices through the use of NLP and smart service systems.

Deep learning methods are achieving state-of-the-art results on challenging machine learning problems such as describing photos and translating text from one language to another. In this new laser-focused Ebook, finally cut through the math, research papers and patchwork descriptions about natural language processing. Using clear explanations, standard Python libraries and step-by-step tutorial lessons you will discover what natural language processing is, the promise of deep learning in the field, how to clean and prepare text data for modeling, and how to develop deep learning models for your own natural language processing projects.

This book constitutes the refereed proceedings of the 17th Brazilian Symposium on Artificial Intelligence, SBIA 2004, held in Sao Luis, Maranhao, Brazil in September/October 2004. The 54 revised full papers presented were carefully reviewed and selected from 208 submissions from 21 countries. The papers are organized in topical sections on logics, planning, and theoretical methods; search, reasoning, and uncertainty; knowledge representation and ontologies; natural language processing; machine learning, knowledge discovery and data mining; evolutionary computing, artificial life, and

hybrid systems; robotics and compiler vision; and autonomous agents and multi-agent systems.

Automatic Summarization is a comprehensive overview of research in summarization, including the more traditional efforts in sentence extraction as well as the most novel recent approaches for determining important content, for domain and genre specific summarization and for evaluation of summarization

Foundations of Computational Intelligence Volume 6: Data Mining: Theoretical Foundations and Applications Finding information hidden in data is as theoretically difficult as it is practically important. With the objective of discovering unknown patterns from data, the methodologies of data mining were derived from statistics, machine learning, and artificial intelligence, and are being used successfully in application areas such as bioinformatics, business, health care, banking, retail, and many others. Advanced representation schemes and computational intelligence techniques such as rough sets, neural networks; decision trees; fuzzy logic; evolutionary algorithms; artificial immune systems; swarm intelligence; reinforcement learning, association rule mining, Web intelligence paradigms etc. have proved valuable when they are applied to Data Mining problems. Computational tools or solutions based on intelligent systems are being used with great success in Data Mining applications. It is also observed that strong scientific advances have been made when issues from different research areas are integrated. This Volume comprises of 15 chapters including an overview chapter providing an up-to-date and state-of-the research on the applications of Computational Intelligence techniques for Data Mining. The book is divided into 3 parts: Part-I: Data Click Streams and Temporal Data Mining Part-II: Text and Rule Mining Part-III: Applications Part I on Data Click Streams and Temporal Data Mining contains four chapters that describe several approaches in Data Click Streams and Temporal Data Mining.

The 7th IEEE/ACIS Conference and the 2nd IEEE/ACIS Workshop on e-Activity (IWEA 2008) featured researchers from around the world. The conference organizers selected 23 outstanding papers for this volume of Springer's Studies in Computational Intelligence.

This volume contains the papers presented at INDIA-2012: International conference on Information system Design and Intelligent Applications held on January 5-7, 2012 in Vishakhapatnam, India. This conference was organized by Computer Society of India (CSI), Vishakhapatnam chapter well supported by Vishakhapatnam Steel, RINL, Govt of India. It contains 108 papers contributed by authors from six different countries across four continents. These research papers mainly focused on intelligent applications and various system design issues. The papers cover a wide range of topics of computer science and information technology discipline ranging from image processing, data base application, data mining, grid and cloud computing, bioinformatics among many others. The various intelligent tools like swarm intelligence, artificial intelligence, evolutionary algorithms, bio-inspired algorithms have been applied in different papers for solving various challenging IT related problems.

Information extraction (IE) and text summarization (TS) are powerful technologies for finding relevant pieces of information in text and presenting them to the user in condensed form. The ongoing information explosion makes IE and TS critical for successful functioning within the information society. These technologies face particular challenges due to the inherent multi-source nature of the information explosion. The technologies must now handle not isolated texts or individual narratives, but rather large-scale repositories and streams---in general, in multiple languages---containing a multiplicity of perspectives, opinions, or commentaries on particular topics, entities or events. There is thus a need to adapt existing techniques and develop new ones to deal with these challenges. This volume contains a selection of papers that present a variety of methodologies for content identification and extraction, as well as for content fusion and regeneration. The chapters cover

various aspects of the challenges, depending on the nature of the information sought---names vs. events,--- and the nature of the sources---news streams vs. image captions vs. scientific research papers, etc. This volume aims to offer a broad and representative sample of studies from this very active research field.

This book describes recent advances in text summarization, identifies remaining gaps and challenges, and proposes ways to overcome them. It begins with one of the most frequently discussed topics in text summarization – ‘sentence extraction’ –, examines the effectiveness of current techniques in domain-specific text summarization, and proposes several improvements. In turn, the book describes the application of summarization in the legal and scientific domains, describing two new corpora that consist of more than 100 thousand court judgments and more than 20 thousand scientific articles, with the corresponding manually written summaries. The availability of these large-scale corpora opens up the possibility of using the now popular data-driven approaches based on deep learning. The book then highlights the effectiveness of neural sentence extraction approaches, which perform just as well as rule-based approaches, but without the need for any manual annotation. As a next step, multiple techniques for creating ensembles of sentence extractors – which deliver better and more robust summaries – are proposed. In closing, the book presents a neural network-based model for sentence compression. Overall the book takes readers on a journey that begins with simple sentence extraction and ends in abstractive summarization, while also covering key topics like ensemble techniques and domain-specific summarization, which have not been explored in detail prior to this.

This 41st volume covers Application of Bayesian Belief Networks to Highway Construction to Virtual Reality Software and Technology.

Organizations generate and collect large volumes of textual data. Unfortunately, many companies are unable to capitalize fully on the value of this data because information implicit within it is not easy to discern. Primarily intended for business analysts and statisticians across multiple industries, this book provides an introduction to the types of problems encountered and current available text mining solutions.

The Meaning of Language illustrates the diversity of approaches in linguistics. The volume revolves around two main chapters authored by two internationally acknowledged Scandinavian scholars, Hans Basbøll and Stig Eliasson. Basbøll's contribution is the most detailed and coherent English-language presentation of the pioneering Danish 18th century linguist Jens Pedersen Høysgaard and his work, and Eliasson explores the intricacy of the issue of whether morphology can be borrowed between languages and the mechanisms of actual borrowings. The other contributions illustrate which topics may be taken up by language scholars today, from metaphor, regional phonology, morphology and syntax, language learning, discourse analysis, intensifier semantics, and Indo-European, to the interface between language and logic. The approaches invoke a wide spectrum of theoretical models and assumptions.

Concise Encyclopedia of Semantics is a comprehensive new reference work aiming to systematically describe all aspects of the study of meaning in language. It synthesizes in one volume the latest scholarly positions on the construction, interpretation, clarification, obscurity, illustration, amplification, simplification, negotiation, contradiction, contraction and paraphrasing of meaning, and the various concepts, analyses, methodologies and technologies that underpin their study. It examines not only semantics but the impact of semantic study on related fields such as morphology, syntax, and typologically oriented studies such as ‘grammatical semantics’, where semantics has made a considerable contribution to our understanding of verbal categories like tense or aspect, nominal categories like case or possession, clausal categories like causatives, comparatives, or conditionals, and discourse phenomena like reference and anaphora. COSE also examines lexical semantics and its relation to syntax, pragmatics,

and cognitive linguistics; and the study of how 'logical semantics' develops and thrives, often in interaction with computational linguistics. As a derivative volume from Encyclopedia of Language and Linguistics, Second Edition, it comprises contributions from 150 of the foremost scholars of semantics in their various specializations and draws on 20+ years of development in the parent work in a compact and affordable format. Principally intended for tertiary level inquiry and research, this will be invaluable as a reference work for undergraduate and postgraduate students as well as academics inquiring into the study of meaning and meaning relations within languages. As semantics is a centrally important and inherently cross-cutting area within linguistics it will therefore be relevant not just for semantics specialists, but for most linguistic audiences. The first encyclopedia ever published in this fascinating and diverse field Combines the talents of the world's leading semantics specialists The latest trends in the field authoritatively reviewed and interpreted in context of related disciplines Drawn from the richest, most authoritative, comprehensive and internationally acclaimed reference resource in the linguistics area Compact and affordable single volume reference format In the last few years, there has been an increased advancement and evolution in semantic web and information systems in a variety of fields. The integration of these approaches to ontology engineering, sophisticated methods and algorithms for open linked data extraction, and advanced decision-making creates new opportunities for a bright future. Innovations, Developments, and Applications of Semantic Web and Information Systems is a critical scholarly resource that discusses integrated methods of research and analytics in information technology. Featuring coverage on a broad range of topics, such as cognitive computing, artificial intelligence, machine learning, data analysis, and algorithms, this book is geared towards researchers, academicians, and professionals seeking current information on semantic web and information systems.

The prevalence of digital documentation presents some pressing concerns for efficient information retrieval in the modern age. Readers want to be able to access the information they desire without having to search through a mountain of unrelated data, so algorithms and methods for effectively seeking out pertinent information are of critical importance. Innovative Document Summarization Techniques: Revolutionizing Knowledge Understanding evaluates some of the existing approaches to information retrieval and summarization of digital documents, as well as current research and future developments. This book serves as a sounding board for students, educators, researchers, and practitioners of information technology, advancing the ongoing discussion of communication in the digital age.

Until now there has been no state-of-the-art collection of the most important writings in automatic text summarization. This book presents the key developments in the field in an integrated framework and suggests future research areas. With the rapid growth of the World Wide Web and electronic information services, information is becoming available on-line at an incredible rate. One result is the oft-decried information overload. No one has time to read everything, yet we often have to make critical decisions based on what we are able to assimilate. The technology of automatic text summarization is becoming indispensable for dealing with this problem. Text summarization is the process of distilling the most important information from a source to produce an abridged version for a particular user or task. Until now there has been no state-of-the-art collection of the most important writings



in automatic text summarization. This book presents the key developments in the field in an integrated framework and suggests future research areas. The book is organized into six sections: Classical Approaches, Corpus-Based Approaches, Exploiting Discourse Structure, Knowledge-Rich Approaches, Evaluation Methods, and New Summarization Problem Areas. Contributors D. A. Adams, C. Aone, R. Barzilay, E. Bloedorn, B. Boguraev, R. Brandow, C. Buckley, F. Chen, M. J. Chrzanowski, H. P. Edmundson, M. Elhadad, T. Firmin, R. P. Futrelle, J. Gorlinsky, U. Hahn, E. Hovy, D. Jang, K. Sparck Jones, G. M. Kasper, C. Kennedy, K. Kukich, J. Kupiec, B. Larsen, W. G. Lehnert, C. Lin, H. P. Luhn, I. Mani, D. Marcu, M. Maybury, K. McKeown, A. Merlino, M. Mitra, K. Mitze, M. Moens, A. H. Morris, S. H. Myaeng, M. E. Okurowski, J. Pedersen, J. J. Pollock, D. R. Radev, G. J. Rath, L. F. Rau, U. Reimer, A. Resnick, J. Robin, G. Salton, T. R. Savage, A. Singhal, G. Stein, T. Strzalkowski, S. Teufel, J. Wang, B. Wise, A. Zamora

This text covers the technologies of document retrieval, information extraction, and text categorization in a way which highlights commonalities in terms of both general principles and practical concerns. It assumes some mathematical background on the part of the reader, but the chapters typically begin with a non-mathematical account of the key issues. Current research topics are covered only to the extent that they are informing current applications; detailed coverage of longer term research and more theoretical treatments should be sought elsewhere. There are many pointers at the ends of the chapters that the reader can follow to explore the literature. However, the book does maintain a strong emphasis on evaluation in every chapter both in terms of methodology and the results of controlled experimentation.

This book constitutes the refereed proceedings of the 14th Artificial Intelligence Conference sponsored by the Canadian Society for Computational Studies of Intelligence, AI 2001, held in Ottawa, Canada, in June 2001. The 24 revised full papers presented together with 14 posters were carefully reviewed and selected from around 70 submissions. Among the topics addressed are learning, data mining, searching, multi-agent systems, automated deduction, computational linguistics, constraint programming, agent learning, planning, classifier systems, heuristics, logic programming, and case-based reasoning.

While the availability of electronic documents increases exponentially with advancing technology, the time spent to process this wealth of resourceful information decreases. Content analysis and information extraction must be aided by summarization methods to quickly parcel pieces of interest and allow for succinct user familiarization in a simple, efficient manner. Trends and Applications of Text Summarization Techniques is a pivotal reference source that explores the latest approaches of document summarization including update, multi-lingual, and domain-oriented summarization tasks and examines their current real-world applications in multiple fields. Featuring coverage on a wide range of topics such as parallel construction, social network integration, and evaluation metrics, this book is ideally designed for information technology practitioners, computer scientists, bioinformatics analysts, business managers, healthcare professionals, academicians, researchers, and students.

This book constitutes the refereed proceedings of the 27th European Conference on Information Retrieval Research, ECIR 2005, held in Santiago de Compostela, Spain in March 2005. The 34 revised full papers presented together with 2 invited keynote

papers and 17 selected poster papers were carefully reviewed and selected from 124 papers submitted. The papers are organized in topical sections on peer-to-peer, information retrieval models, text summarization, information retrieval methods, text classification and fusion, user studies and evaluation, multimedia retrieval, and Web information retrieval.

This volume contains the proceedings of the 3rd International Conference on

Advances in Information Systems (ADVIS) held in Izmir, Turkey, 20–22 October, 2004. This was the third conference dedicated to the memory of Prof. Esen Ozkaran. We are very proud to continue this tradition and keep the memory of this outstanding scientist.

The third conference covered many of the topics of the second one: databases and data warehouses, information systems development and management, information retrieval, distributed and parallel data processing, and evolutionary algorithms.

Besides them some of the hot topics related to information systems were included in the scope of this conference, such as data mining and knowledge discovery, Web information systems development, information privacy and security, multimedia information systems, and network management. This year we received 203 submissions from which the Program Committee selected 61 papers for presentation at the conference. The success of the conference was dependent upon the hard work of a large number of people. We gratefully acknowledge the contribution of the members of the Program Committee who did their best to review all submitted papers. We also thank all the specialists who helped us in reviewing the papers. We appreciated the constant support and help from the Rector of Dokuz Eylul University, Prof. Dr. Emin Alici. I would like to express my personal gratitude to Natalya Cheremnykh and Olga Drobyshevich for their help in producing the camera-ready version of these proceedings.

This book includes high-quality, peer-reviewed papers from the International Conference on Recent Advancement in Computer, Communication and Computational Sciences (RACCCS-2018), held at Aryabhata College of Engineering & Research Center, Ajmer, India on August 10–11, 2018, presenting the latest developments and technical solutions in computational sciences.

Networking and communication are the backbone of data science, data- and knowledge engineering, which have a wide scope for implementation in engineering sciences. This book offers insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. Covering a variety of topics, such as intelligent hardware and software design, advanced communications, intelligent computing technologies, advanced software engineering, the web and informatics, and intelligent image processing, it helps those in the computer industry and academia use the advances in next-generation communication and computational technology to shape real-world applications.

Advances in Automatic Text Summarization MIT Press

Textual information in the form of digital documents quickly accumulates to create huge amounts of data. The majority of these documents are unstructured: it is unrestricted text and has not been organized into traditional databases. Processing documents is therefore a perfunctory task, mostly due to a lack of standards. It has thus become extremely difficult to implement automatic text analysis tasks. Automatic Text Summarization (ATS), by condensing the text while maintaining relevant information, can help to process this ever-increasing, difficult-to-handle, mass of information. This book examines the motivations and different algorithms

for ATS. The author presents the recent state of the art before describing the main problems of ATS, as well as the difficulties and solutions provided by the community. The book provides recent advances in ATS, as well as current applications and trends. The approaches are statistical, linguistic and symbolic. Several examples are also included in order to clarify the theoretical concepts. The Fourth Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2000) was held at the Keihanna-Plaza, Kyoto, Japan, April 18 - 20, 2000. PAKDD 2000 provided an international forum for researchers and application developers to share their original research results and practical development experiences. A wide range of current KDD topics were covered including machine learning, databases, statistics, knowledge acquisition, data visualization, knowledge-based systems, soft computing, and high performance computing. It followed the success of PAKDD 97 in Singapore, PAKDD 98 in Australia, and PAKDD 99 in China by bringing together participants from universities, industry, and government from all over the world to exchange problems and challenges and to disseminate the recently developed KDD techniques. This PAKDD 2000 proceedings volume addresses both current issues and novel approaches in regards to theory, methodology, and real world application. The technical sessions were organized according to subtopics such as Data Mining Theory, Feature Selection and Transformation, Clustering, Application of Data Mining, Association Rules, Induction, Text Mining, Web and Graph Mining. Of the 116 worldwide submissions, 33 regular papers and 16 short papers were accepted for presentation at the conference and included in this volume. Each submission was critically reviewed by two to four program committee members based on their relevance, originality, quality, and clarity.

This 4-Volume-Set, CCIS 0251 - CCIS 0254, constitutes the refereed proceedings of the International Conference on Informatics Engineering and Information Science, ICIEIS 2011, held in Kuala Lumpur, Malaysia, in November 2011. The 210 revised full papers presented together with invited papers in the 4 volumes were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on e-learning, information security, software engineering, image processing, algorithms, artificial intelligence and soft computing, e-commerce, data mining, neural networks, social networks, grid computing, biometric technologies, networks, distributed and parallel computing, wireless networks, information and data management, web applications and software systems, multimedia, ad hoc networks, mobile computing, as well as miscellaneous topics in digital information and communications.

This book constitutes the refereed proceedings of the 16th Conference of the Canadian Society for Computational Studies of Intelligence, AI 2003, held in Halifax, Canada in June 2003. The 30 revised full papers and 24 revised short papers presented were carefully reviewed and selected from 106 submissions. The papers are organized in topical sections on knowledge representation, search, constraint satisfaction, machine learning and data mining, AI and Web applications, reasoning under uncertainty, agents and multi-agent systems, AI and bioinformatics, and AI and e-commerce.

The biennial Brazilian Symposium on Artificial Intelligence (SBIA 2002) – of which this is the 16th event – is a meeting and discussion forum for artificial intelligence researchers and practitioners worldwide. SBIA is the leading conference in Brazil for the



presentation of research and applications in artificial intelligence. The first SBIA was held in 1984, and since 1995 it has been an international conference, with papers written in English and an international program committee, which this year was composed of 45 researchers from 13 countries. SBIA 2002 was held in conjunction with the VII Brazilian Symposium on Neural Networks (SBRN 2002). SBRN 2002 focuses on neural networks and on other models of computational intelligence. SBIA 2002, supported by the Brazilian Computer Society (SBC), was held in Porto de Galinhas/Recife, Brazil, 11–14 November 2002. The call for papers was very successful, resulting in 146 papers submitted from 18 countries. A total of 39 papers were accepted for publication in the proceedings. We would like to thank the SBIA 2002 sponsoring organizations, CNPq, Capes, and CESAR, and also all the authors who submitted papers. In particular, we would like to thank the program committee members and the additional referees for the difficult task of reviewing and commenting on the submitted papers.

This edited book is based on the research papers presented at the 4th International Conference on Intelligent, Interactive Systems and Applications (IISA2019), held on June 28–30, 2019 in Bangkok, Thailand. Interactive intelligent systems (IIS) are systems that interact with human beings, media or virtual agents in intelligent computing environments. This book explores how novel interactive systems can intelligently address various challenges and also limitations previously encountered by human beings using different machine learning algorithms, and analyzes recent trends. The book includes contributions from diverse areas of IIS, here categorized into seven sections, namely i) Intelligent Systems; ii) Autonomous Systems; iii) Pattern Recognition and Computer Vision; iv) E-Enabled Systems; v) Internet & Cloud Computing; vi) Mobile & Wireless Communication; and vii) Various Applications. It not only presents theoretical knowledge on the intelligent and interactive systems but also discusses various applications pertaining to different domains.

SBIA, the Brazilian Symposium on Artificial Intelligence, is a biennial event intended to be the main forum of the AI community in Brazil. The SBIA 2004 was the 17th issue of the series initiated in 1984. Since 1995 SBIA has been accepting papers written and presented only in English, attracting researchers from all over the world. At that time it also started to have an international program committee, keynote invited speakers, and proceedings published in the Lecture Notes in Artificial Intelligence (LNAI) series of Springer (SBIA 1995, Vol. 991, SBIA 1996, Vol. 1159, SBIA 1998, Vol. 1515, SBIA 2000, Vol. 1952, SBIA 2002, Vol. 2507). SBIA 2004 was sponsored by the Brazilian Computer Society (SBC). It was held from September 29 to October 1 in the city of São Luis, in the northeast of Brazil, together with the Brazilian Symposium on Neural Networks (SBRN). This followed a trend of joining the AI and ANN communities to make the joint event a very exciting one. In particular, in 2004 these two events were also held together with the IEEE International Workshop on Machine Learning and Signal Processing (MMLP), formerly NNLP. The

organizational structure of SBIA 2004 was similar to other international scientific conferences. The backbone of the conference was the technical program which was complemented by invited talks, workshops, etc. on the main topics. Knowledge-Based Information Retrieval and Filtering from the Web contains fifteen chapters, contributed by leading international researchers, addressing the matter of information retrieval, filtering and management of the information on the Internet. The research presented deals with the need to find proper solutions for the description of the information found on the Internet, the description of the information consumers need, the algorithms for retrieving documents (and indirectly, the information embedded in them), and the presentation of the information found. The chapters include: -Ontological representation of knowledge on the WWW; -Information extraction; -Information retrieval and administration of distributed documents; -Hard and soft modeling based knowledge capture; -Summarization of texts found on the WWW; -User profiles and personalization for web-based information retrieval system; -Information retrieval under constricted bandwidth; -Multilingual WWW; -Generic hierarchical classification using the single-link clustering; -Clustering of documents on the basis of text fuzzy similarity; -Intelligent agents for document categorization and adaptive filtering; -Multimedia retrieval and data mining for E-commerce and E-business; -A Web-based approach to competitive intelligence; -Learning ontologies for domain-specific information retrieval; -An open, decentralized architecture for searching for, and publishing information in distributed systems.

ARIST, published annually since 1966, is a landmark publication within the information science community. It surveys the landscape of information science and technology, providing an analytical, authoritative, and accessible overview of recent trends and significant developments. The range of topics varies considerably, reflecting the dynamism of the discipline and the diversity of theoretical and applied perspectives. While ARIST continues to cover key topics associated with "classical" information science (e.g., bibliometrics, information retrieval), editor Blaise Cronin is selectively expanding its footprint in an effort to connect information science more tightly with cognate academic and professional communities. Contents of Volume 40 (2006): SECTION I: Information and Society Chapter 1: The Micro- and Macroeconomics of Information, Sandra Braman Chapter 2: The Geographies of the Internet, Matthew Zook Chapter 3: Open Access, M. Carl Drott SECTION II: Technologies and Systems Chapter 4: TREC: An Overview, Donna K. Harman and Ellen M. Voorhees Chapter 5: Semantic Relations in Information Science, Christopher S. G. Khoo and Jin-Cheon Na Chapter 6: Intelligence and Security Informatics, Hsinchun Chen and Jennifer Xu SECTION III: Information Needs and Use Chapter 7: Information Behavior, Donald O. Case Chapter 8: Collaborative Information Seeking and Retrieval, Jonathan Foster Chapter 9: Information Failures in Health Care, Anu MacIntosh-Murray and Chun Wei Choo Chapter 10: Workplace Studies and Technological Change, Angela Cora Garcia, Mark E. Dawes, Mary Lou Kohne, Felicia Miller, and Stephan F.

Groschwitz SECTION IV: Theoretical Perspectives Chapter 11: Information History, Alistair Black Chapter 12: Social Epistemology and Information Science, Don Fallis Chapter 13: Formal Concept Analysis in Information Science, Uta Priss.

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