

# Advances In Automatic Text Summarization

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Breakthroughs in Research and Practice

Deep Learning for Natural Language Processing

Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2013

Ambient Communications and Computer Systems

Text Retrieval, Extraction and Categorization

Advances in Artificial Intelligence

Text Mining and its Applications to Intelligence, CRM and Knowledge Management

Destination Management and Marketing: Breakthroughs in Research and Practice

Automatic Summarization

Natural Language Processing for Online Applications

Trends and Applications of Text Summarization Techniques

Knowledge Discovery and Data Mining. Current Issues and New Applications

NTCIR's Legacy of Research Impact

7th International Conference, KES 2003, Oxford, UK, September 3-5, 2003, Proceedings, Part I

Encyclopedia of Library and Information Sciences

Third International Conference, ADVIS 2004, Izmir, Turkey, October 20-22, 2004. Proceedings

Annual Review of Information Science and Technology

*Advances In Automatic Text Summarization*

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## COOLEY ODOM

*Breakthroughs in Research and Practice* Springer Science & Business Media

This open access book summarizes the first two decades of the NII Testbeds and Community for Information access Research (NTCIR). NTCIR is a series of evaluation forums run by a global team of researchers and hosted by the National Institute of Informatics (NII), Japan. The book is unique in

that it discusses not just what was done at NTCIR, but also how it was done and the impact it has achieved. For example, in some chapters the reader sees the early seeds of what eventually grew to be the search engines that provide access to content on the World Wide Web, today's smartphones that can tailor what they show to the needs of their owners, and the smart speakers that enrich our lives at home and on the move. We also get glimpses into how new search engines can be built for mathematical formulae, or for the digital record of a lived human life. Key to the success of the NTCIR endeavor was early recognition that information access research is an empirical discipline and that evaluation therefore lay at the core of the enterprise. Evaluation is thus at the heart of each

chapter in this book. They show, for example, how the recognition that some documents are more important than others has shaped thinking about evaluation design. The thirty-three contributors to this volume speak for the many hundreds of researchers from dozens of countries around the world who together shaped NTCIR as organizers and participants. This book is suitable for researchers, practitioners, and students--anyone who wants to learn about past and present evaluation efforts in information retrieval, information access, and natural language processing, as well as those who want to participate in an evaluation task or even to design and organize one.

*Deep Learning for Natural Language Processing* Springer Science & Business Media

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 Ozkarahan. 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.

### **PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON FRONTIERS OF INTELLIGENT COMPUTING: THEORY AND APPLICATIONS (FICTA) 2013**

John Benjamins Publishing

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

*Ambient Communications and Computer Systems* IGI Global

In a globalized society, effective communication is critical, and study of language from a mathematical perspective can shed light on new ways in which to express meaning across cultures and nations. *Computational Linguistics: Concepts, Methodologies, Tools, and Applications* explores language by dissecting the phonemic aspects of various communication systems in order to identify similarities and pitfalls in the expression of meaning. With applications in a variety of areas, from psycholinguistics and cognitive science to computer science and artificial intelligence, this multivolume reference work will be of use to researchers, professionals, and educators on the

cutting edge of language acquisition and communication science.

*Text Retrieval, Extraction and Categorization* CRC Press

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.

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*Advances in Artificial Intelligence* IGI Global

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

*Text Mining and its Applications to Intelligence, CRM and Knowledge Management* WIT Press

This volume is based on the research papers presented in the 4th Computer Science On-line Conference. The volume Artificial Intelligence Perspectives and Applications presents new approaches and methods to real-world problems, and in particular, exploratory research that describes novel approaches in the field of artificial intelligence. Particular emphasis is laid on modern trends in selected fields of interest. New algorithms or methods in a variety of fields are also presented. The Computer Science On-line Conference (CSOC 2015) is intended to provide an international forum for discussions on the latest high-quality research results in all areas related to Computer Science. The addressed topics are the theoretical aspects and applications of Computer Science, Artificial Intelligences, Cybernetics, Automation Control Theory and Software Engineering.

*Destination Management and Marketing: Breakthroughs in Research and Practice* Elsevier

This book constitutes the thoroughly refereed proceedings of the Third Iberoamerican Conference, KGSWC 2021, held in Kingsville, Texas, USA, in November 2021.\* The 22 full and 2 short papers presented were carefully reviewed and selected from 85 submissions. The papers cover topics related to software and its engineering, information systems, software creation and management, World Wide Web, web data description languages, and others. \*Due to the Covid-19 pandemic the

conference was held virtually.

#### **Automatic Summarization** Springer

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.

#### **NATURAL LANGUAGE PROCESSING FOR ONLINE APPLICATIONS**

Springer Nature

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.

#### **Trends and Applications of Text Summarization Techniques** Springer

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,

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*Knowledge Discovery and Data Mining. Current Issues and New Applications* IGI Global

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.

#### **NTCIR'S LEGACY OF RESEARCH IMPACT**

John Benjamins Publishing

2.1 Text Summarization "Text summarization is the process of distilling the most important information from a source (or sources) to produce an abridged version for a particular user (or users) and task (or tasks)" [3]. Basic and classical articles in text summarization appear in "Advances in automatic text summarization" [3]. A literature survey on information extraction and text summarization is given by Zechner [7]. In general, the process of automatic text summarization is divided into three stages: (1) analysis of the given text, (2) summarization of the text, (3) presentation of the summary in a suitable output form. Titles, abstracts and keywords are the most common summaries in Academic papers. Usually, the title, the abstract and the keywords are the first, second, and third parts of an Academic paper, respectively. The title usually describes the main issue discussed in the study and the abstract presents the reader a short description of the background, the study and its results. A keyword is either a single word (unigram), e.g.: 'learning', or a collocation, which means a group of two or more words, representing an important concept, e.g.: 'machine learning', 'natural language processing'. Retrieving collocations from text was examined by Smadja [5] and automatic extraction of collocations was examined by Kita et al. [1].

7th International Conference, KES 2003, Oxford, UK, September 3-5, 2003, Proceedings, Part I  
Springer Science & Business Media

The significance of big data can be observed in any decision-making process as it is often used for forecasting and predictive analytics. Additionally, big data can be used to build a holistic view of an enterprise through a collection and analysis of large data sets retrospectively. As the data deluge deepens, new methods for analyzing, comprehending, and making use of big data become necessary. Enterprise Big Data Engineering, Analytics, and Management presents novel methodologies and practical approaches to engineering, managing, and analyzing large-scale data sets with a focus on enterprise applications and implementation. Featuring essential big data concepts including data mining, artificial intelligence, and information extraction, this publication provides a platform for retargeting the current research available in the field. Data analysts, IT professionals, researchers, and graduate-level students will find the timely research presented in this publication essential to furthering their knowledge in the field.

### **ENCYCLOPEDIA OF LIBRARY AND INFORMATION SCIENCES**

Springer

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. *Third International Conference, ADVIS 2004, Izmir, Turkey, October 20-22, 2004. Proceedings* CRC Press

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.

### **ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY**

John Wiley & Sons

This book constitutes the refereed proceedings of the 9th Ibero-American Conference on Artificial

Intelligence, IBERAMIA 2004, held in Puebla, Mexico in November 2004. The 97 revised full papers presented were carefully reviewed and selected from 304 submissions. The papers are organized in topical sections on distributed AI and multi-agent systems, knowledge engineering and case-based reasoning, planning and scheduling, machine learning and knowledge acquisition, natural language processing, knowledge representation and reasoning, knowledge discovery and data mining, robotics, computer vision, uncertainty and fuzzy systems, genetic algorithms and neural networks, AI in education, and miscellaneous topics.

### **PROCEEDINGS OF THE 4TH COMPUTER SCIENCE ON-LINE CONFERENCE 2015 (CSOC2015), VOL 1: ARTIFICIAL INTELLIGENCE PERSPECTIVES AND APPLICATIONS**

Machine Learning Mastery

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.

*Advances in Artificial Intelligence* Springer Science & Business Media

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.

*RACCCS-2018* Springer Science & Business Media

This book constitutes the refereed proceedings of the 16th Brazilian Symposium on Artificial Intelligence, SBIA 2002, held in Porto de Galinhas/Recife, Brazil in November 2002. The 39 revised full papers presented were carefully reviewed and selected from 146 submissions from 18 countries. The papers are organized in topical sections on theoretical and logical methods, autonomous agents and multi-agent systems, machine learning, knowledge discovery and data mining, evolutionary computation and artificial life, uncertainty, and natural language processing.

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