MeSH Now: automatic MeSH indexing at PubMed scale via learning to rank123.

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Abstract—Background: MeSH indexing is the task of assigning relevant MeSH terms based on a manual reading of scholarly publications by human indexers. The task is highly important for improving literature retrieval and many other scientific investigations in biomedical research. Unfortunately, given its manual nature, the process of MeSH indexing is both time-consuming (new articles are not immediately indexed until 2 or 3 months later) and costly (approximately ten dollars per article). In response, automatic indexing by computers has been previously proposed and attempted but remains challenging. In order to advance the state of the art in automatic MeSH indexing, a community-wide shared task called BioASQ was recently organized.

Index Terms—Multilayer stent, Aorticaneurysm, Blood flow, Pressure, WSS

I. BACKGROUND

The rapid growth of scholar publications in biomedicine makes the search of relevant information in literature increasingly more difficult, even for specialists [1], [2]. To date, PubMed—the U.S. National Library of Medicine (NLM) premier bibliographic database—contains over 24 million articles from over 5,600 biomedical journals with more than a million records added each year. To facilitate searching these articles in PubMed, a controlled vocabulary called Medical Subject Headings (MeSH) was created and updated annually by the NLM since 1960s. Currently, MeSH 2015 consists of over 27,000 terms representing a wide spectrum of key biomedical concepts (e.g. Humans, Parkinson Disease) in a hierarchical structure. MeSH terms are primarily used to index articles in PubMed for improving literature retrieval. The practice of manually assigning relevant MeSH terms to new publications in PubMed by the NLM human indexers is known as MeSH indexing [3]. Assigned MeSH terms can then be used implicitly (e.g., automatic query expansion using MeSH) or explicitly in PubMed searches [4]. Compared with the commonly used keyword-based PubMed searches, MeSH indexing allows for semantic searching (using the relationship between the subject headings) and searching against concepts not necessarily present in the PubMed abstract.
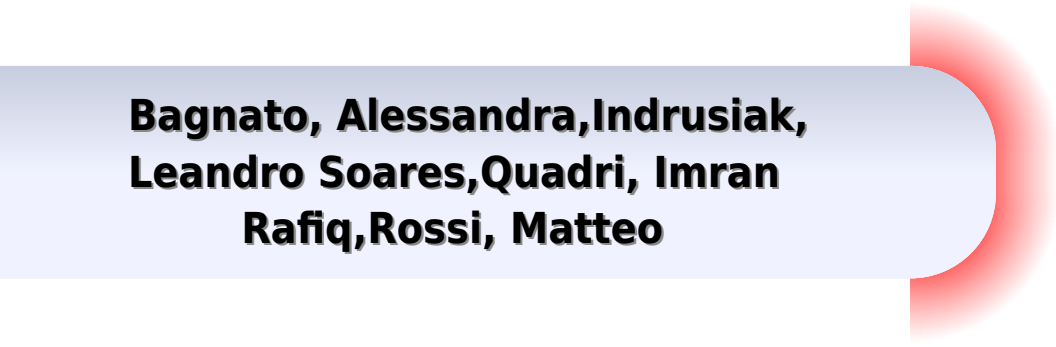
In addition to its use in PubMed, MeSH indexing results have also been used creatively in many other scientific investigation areas, including information retrieval, text mining, citation analysis, education, and traditional bioinformatics research (see Figure 1). When applied to information retrieval, MeSH and its indexing results have been used to build "tag clouds" for improving the visualization of search results [5], [6] and to help distinguish between publication authors with identical names [7], [8]. Another major use of MeSH indexing is in biomedical text mining, where it has been applied to problems such as document summarization [9], document clustering [10], and word sense disambiguation [11]. MeSH indexing also serves several key roles in citation analysis, from identifying emerging research trends [12], [13] to measuring similar journals [14] and characterizing research profiles for an individual researcher, institute or journal [15]. In the era of evidence-based practice, MeSH becomes increasingly important in assessing and training the literature search skills of healthcare professionals [16], [17], as well as in assisting undergraduate education in biological sciences [18]. Finally, much bioinformatics research, such as gene expression data analysis [19], [20], greatly benefits from MeSH indexing [21], [22], [23], [24], [25].

Like many manual annotation projects [26], [27], [28], [29], [30], MeSH indexing is a labour-intensive process. As shown in [3], [31], it can take an average of 2 to 3 months for an article to be manually indexed with relevant MeSH terms after it first enters PubMed. In response, many automated systems for assisting MeSH indexing have been previously proposed. In general, most existing methods are based on the following techniques: i) pattern matching, ii) text classification, iii) k-Nearest Neighbours, iv) learning-to-rank, or v) combination of multiple techniques. Pattern-matching methods [32] search for exact or approximate matches of MeSH terms in free text. Automatic MeSH indexing can also be regarded as a multi-class text classification problem where each MeSH term represents a distinct class label. Thus many multi-label text classification methods have been proposed, such as neural networks [33], Support Vector Machines (SVM) [34], [35], Inductive Logic Programming [36], naïve Bayes with optimal training set [37], Stochastic Gradient Descent [38], and meta-learning [39]. While the pattern matching and text

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Research Anthology on Smart Grid and Microgrid Development Management Association, Information Resources,2021-09-24 Smart grid and microgrid technology are growing exponentially as they are adopted throughout the world These new technologies have revolutionized the way electricity is produced delivered and consumed and offer a plethora of benefits as well as the potential for further growth It is critical to examine the current stage of smart grid and microgrid development as well as the direction they are headed as they continue to expand in order to ensure that cost effective reliable and efficient systems are put in place The Research Anthology on Smart Grid and Microgrid Development is an all encompassing reference source of the latest innovations and trends within smart grid and microgrid development Detailing benefits challenges and opportunities it is a crucial resource to fully understand the current opportunities that smart grids and microgrids present around the world Covering a wide range of topics such as traditional grids future smart grids electrical distribution systems and microgrid integration it is ideal for engineers policymakers systems developers technologists researchers government officials academicians environmental groups regulators utilities specialists industry professionals and students **Emerging Research on Networked Multimedia Communication Systems** Kanellopoulos, Dimitris,2015-08-14 Smart Computing and Communication for Sustainable Convergence Shalli Rani,Ayush Dogra,Ashu Taneja,2025-05-30 The proceedings of the first International Conference on Smart Computing and Communication for Sustainable Convergence ISCCSC 2024 present a rich repository of cutting edge research on smart computing artificial intelligence and machine learning It highlights technological breakthroughs and practical challenges in the field of edge learning data mining image processing smart communications 5G 6G communication networks signal processing wireless sensor networks antenna systems and imaging It also explores a wide range of communication paradigms especially those pertaining to smart cities by delving deeper into smart healthcare smart transportation and intelligent data processing The findings are instrumental in combating critical global issues and foster a deeper understanding of the role of AI in shaping the world we live in This will be a highly valuable guide to researchers data scientists practicing professionals and students in the fields of artificial intelligence machine learning and data processing *Research and Development in the Computer and Information Sciences: Information acquisition, sensing, and input* Mary Elizabeth Stevens,1970 Index of Conference Proceedings Received British Library. Document Supply Centre,1987 **NBS Monograph** United States. National Bureau of Standards,1970 Index of Conference Proceedings Received British Library. Lending Division,1986-07 Advances in Science, Engineering and Technology Tasneem Ahmed,Shrish Bajpai,Mohammad Faisal,Suman Lata Tripathi,2025-05-23 The objective of the conference was to provide a common platform for innovative academicians and industrial experts working in the fields of sciences engineering and information technology It provided a platform for knowledge exchange and the development of new ideas on the transformative technologies of quantum computing video analytics Artificial Intelligence

and Machine Learning The conference also discussed the significance of cutting edge technologies specifically Machine Learning and its pivotal role in the future of science and industry **Electronics, Communications and Networks IV** Amir Hussain,Mirjana Ivanovic,2015-07-01 The 4th International Conference on Electronic Communications and Networks CECNet2014 inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai CECNet2014 was hosted by Hubei University of Science and Technology China with the main objective of providing a comprehensive global forum for experts and participants from acadamia to exchange ideas and presenting results of ongoing research in the most state of the art areas of Consumer Electronics Technology Communication Engineering and Technology Wireless Communications Enginneering and Technology and Computer Engineering and Technology In this event 13 famous scholars and Engineers have delivered the keynote speeches on their latest research including Prof Vijaykrishnan Narayanan a Fellow of the Institute of Electrical and ElectronicsEngineers Prof Han Chieh Chao the Director of the Computer Center for Ministry of Education Taiwan from September 2008 to July 2010 Prof Borko Furht the founder of the Journal of Multimedia Tools and Applications Prof Kevin Deng who served as Acting Director of Hong Kong APAS R D Center in 2010 and Prof Minho Jo the Professor of Department of Computer and Information Science Korea University Handbook of Research on Embedded Systems Design Bagnato, Alessandra,Indrusiak, Leandro Soares,Quadri, Imran Rafiq,Rossi, Matteo,2014-06-30 As real time and integrated systems become increasingly sophisticated issues related to development life cycles non recurring engineering costs and poor synergy between development teams will arise The Handbook of Research on Embedded Systems Design provides insights from the computer science community on integrated systems research projects taking place in the European region This premier references work takes a look at the diverse range of design principles covered by these projects from specification at high abstraction levels using standards such as UML and related profiles to intermediate design phases This work will be invaluable to designers of embedded software academicians students practitioners professionals and researchers working in the computer science industry Handbook of Research on Advanced Trends in Microwave and Communication Engineering El Oualkadi, Ahmed,Zbitou, Jamal,2016-08-25 Wireless communications have become invaluable in the modern world The market is going through a revolutionary transformation as new technologies and standards endeavor to keep up with demand for integrated and low cost mobile and wireless devices Due to their ubiquity there is also a need for a simplification of the design of wireless systems and networks The Handbook of Research on Advanced Trends in Microwave and Communication Engineering showcases the current trends and approaches in the design and analysis of reconfigurable microwave devices antennas for wireless applications and wireless communication technologies Outlining both theoretical and experimental approaches this publication brings to light the unique design issues of this emerging research making it an ideal reference source for engineers researchers graduate students and IT professionals **Spectrum Sharing** Constantinos B. Papadias,Tharmalingam Ratnarajah,Dirk T. M.

Slock,2020-04-06 Combines the latest trends in spectrum sharing both from a research and a standards regulation experimental standpoint Written by noted professionals from academia industry and research labs this unique book provides a comprehensive treatment of the principles and architectures for spectrum sharing in order to help with the existing and future spectrum crunch issues It presents readers with the most current standardization trends including CEPT CEE eLSA CBRS MulteFire LTE Unlicensed LTE U LTE WLAN integration with Internet Protocol security tunnel LWIP and LTE Wi Fi aggregation LWA and offers substantial trials and experimental results as well as system level performance evaluation results The book also includes a chapter focusing on spectrum policy reinforcement and another on the economics of spectrum sharing Beginning with the historic form of cognitive radio Spectrum Sharing The Next Frontier in Wireless Networks continues with current standardized forms of spectrum sharing and reviews all of the technical ingredients that may arise in spectrum sharing approaches It also looks at policy and implementation aspects and ponders the future of the field White spaces and data base assisted spectrum sharing are discussed as well as the licensed shared access approach and cooperative communication techniques The book also covers reciprocity based beam forming techniques for spectrum sharing in MIMO networks resource allocation for shared spectrum networks large scale wireless spectrum monitoring and much more Contains all the latest standardization trends such as CEPT ECC eLSA CBRS MulteFire LTE Unlicensed LTE U LTE WLAN integration with Internet Protocol security tunnel LWIP and LTE Wi Fi aggregation LWA Presents a number of emerging technologies for future spectrum sharing collaborative sensing cooperative communication reciprocity based beamforming etc as well as novel spectrum sharing paradigms e g in full duplex and radar systems Includes substantial trials and experimental results as well as system level performance evaluation results Contains a dedicated chapter on spectrum policy reinforcement and one on the economics of spectrum sharing Edited by experts in the field and featuring contributions by respected professionals in the field world wide Spectrum Sharing The Next Frontier in Wireless Networks is highly recommended for graduate students and researchers working in the areas of wireless communications and signal processing engineering It would also benefit radio communications engineers and practitioners **Transforming Management with AI, Big-Data, and IoT** Fadi Al-Turjman,Satya Prakash Yadav,Manoj Kumar,Vibhash Yadav,Thompson Stephan,2022-02-17 This book discusses the effect that artificial intelligence AI and Internet of Things IoT have on industry The authors start by showing how the application of these technologies has already stretched across domains such as law political science policy and economics and how it will soon permeate areas of autonomous transportation education and space exploration only to name a few The authors then discuss applications in a variety of industries Throughout the volume the authors provide detailed well illustrated treatments of each topic with abundant examples and exercises This book provides relevant theoretical frameworks and the latest empirical research findings in various applications The book is written for professionals who want to improve their understanding of the strategic role of trust at different levels of the information and knowledge

society that is trust at the level of the global economy of networks and organizations of teams and work groups of information systems and finally trust at the level of individuals as actors in the networked environments Presents research in various industries and how artificial intelligence and Internet of Things is changing the landscape of business and management Includes new and innovative features in artificial intelligence and IoT that can help in raising economic efficiency at both micro and macro levels Examines case studies with tried and tested approaches to resolution of typical problems in each application of study   *Future Trends and Challenges for ICT Standardization* Ramjee Prasad,2025-01-13 This book comes in response to the Future Trends and Challenges for ICT Standardization The technological areas covered are the need importance and management of radio spectrum the development of future radio access technologies the convergence of telecommunications and broadcasting the possibilities and challenges brought by the Internet of Things IoT the environment sustainability through the use of Green ICT The book aims at identifying the importance of ICT standardization for strengthening the Indian industrial and business sector through Global ICT Standardization Forum for India GISFI www gisfi org Further it outlines the major challenges and trends in the ICT development worldwide while mapping the Indian efforts on the background of the overall progress The motivation behind this book is that a more informed context is made available to ensure sustainable scientific and economic growth Finally the book puts forward the best research roadmaps strategies and challenges contributed by engineers from the industry academia and Government It addresses the benefits to the entire society resulting from standardization   **Mobile Multimedia Communications** Luigi Atzori,Jaime Delgado,Daniel Giusto,2012-04-29 This book constitutes the thoroughly refereed post conference proceedings of the 7th International ICST Conference on Mobile Multimedia Communications MOBIMEDIA 2011 held in Cagliari Italy in September 2011 The 26 revised full papers presented were carefully selected from numerous submissions and focus topics such as quality of experience dynamic spectrum access wireless networks in the TV white spaces media streaming mobile visual search image processing and transmission and mobile applications   **Computational Intelligence for Managing Pandemics** Aditya Khamparia,Rubaiyat Hossain Mondal,Prajoy Podder,Bharat Bhushan,Victor Hugo C. de Albuquerque,Sachin Kumar,2021-09-07 This book uncovers the stakes and possibilities of handling pandemic diseases with the help of Computational Intelligence using cases and applications from the current Covid 19 pandemic The book chapters will focus on the application of CI and its related fields in managing different aspects of Covid 19 including modelling of the disease spread data driven prediction identification of disease hotspots and medical decision support   *High Definition Television* Philip J. Cianci,2014-01-10 The 40 year history of high definition television technology is traced from initial studies in Japan through its development in Europe and then to the United States where the first all digital systems were implemented Details are provided about advances in HDTV technology in Australia and Japan Europe s introduction of HDTV Brazil s innovative use of MPEG 4 and China s terrestrial standard The impact of HDTV on broadcast facility conversion and the influx of

computer systems and information technology are described as well as the contributions of the first entrepreneurial HD videographers and engineers This thoroughly researched volume highlights several of the landmark high definition broadcasts from 1988 onward includes input gathered from more than 50 international participants and concludes with the rollout of consumer HDTV services throughout the world   Machine Learning Algorithms for Signal and Image Processing Deepika Ghai,Suman Lata Tripathi,Sobhit Saxena,Manash Chanda,Mamoun Alazab,2022-12-08 Machine Learning Algorithms for Signal and Image Processing Enables readers to understand the fundamental concepts of machine and deep learning techniques with interactive real life applications within signal and image processing Machine Learning Algorithms for Signal and Image Processing aids the reader in designing and developing real world applications using advances in machine learning to aid and enhance speech signal processing image processing computer vision biomedical signal processing adaptive filtering and text processing It includes signal processing techniques applied for pre processing feature extraction source separation or data decompositions to achieve machine learning tasks Written by well qualified authors and contributed to by a team of experts within the field the work covers a wide range of important topics such as Speech recognition image reconstruction object classification and detection and text processing Healthcare monitoring biomedical systems and green energy How various machine and deep learning techniques can improve accuracy precision rate recall rate and processing time Real applications and examples including smart sign language recognition fake news detection in social media structural damage prediction and epileptic seizure detection Professionals within the field of signal and image processing seeking to adapt their work further will find immense value in this easy to understand yet extremely comprehensive reference work It is also a worthy resource for students and researchers in related fields who are looking to thoroughly understand the historical and recent developments that have been made in the field   Quality of Service Architectures for Wireless Networks: Performance Metrics and Management Adibi, Sasan,Jain, Raj,Parekh, Shyam,Tofighbakhsh, Mostafa,2010-01-31 This book further explores various issues and proposed solutions for the provision of Quality of Service QoS on the wireless networks Provided by publisher   The Art of Wireless Sensor Networks Habib M. Ammari,2013-12-13 During the last one and a half decades wireless sensor networks have witnessed significant growth and tremendous development in both academia and industry The Art of Wireless Sensor Networks Volume 1 Fundamentals focuses on the fundamentals concepts in the design analysis and implementation of wireless sensor networks It covers the various layers of the lifecycle of this type of network from the physical layer up to the application layer Its rationale is that the first volume covers contemporary design issues tools and protocols for radio based two dimensional terrestrial sensor networks All the book chapters in this volume include up to date research work spanning various classic facets of the physical properties and functional behavior of wireless sensor networks including physical layer medium access control data routing topology management mobility management localization task management data management data gathering security

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