

# MeSH Now: automatic MeSH indexing at PubMed scale via learning to rank<sup>123</sup>.

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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)<sup>1</sup> 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

<sup>1</sup> <http://www.ncbi.nlm.nih.gov/mesh/>

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**Markku Renfors,Xavier  
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Bader**



## **Ieee Electronics And Communication Project Papers Doc:**

*NBS Monograph* United States. National Bureau of Standards,1970      **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      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

**Research and Development in the Computer and Information Sciences: Information acquisition, sensing, and input** Mary Elizabeth Stevens,1970

**Cognitive Radio-Oriented Wireless Networks** Adrian Kliks,Paweł Kryszkiewicz,Faouzi Bader,Dionysia Triantafyllopoulou,Carlos E. Caicedo,Aydin Sezgin,Nikos Dimitriou,Michał Sybis,2019-08-10 This book constitutes the refereed proceedings of the 14th International Conference on Cognitive Radio Oriented Wireless Networks CROWNCOM 2019 held in Poznan Poland in June 2019 The 30 revised full papers were selected from 48 submissions and present a large scope of research topic also covering IoT in 5G and how cognitive mechanisms shall help leveraging access for numerous devices mmWave and how specific propagation and operation in these bands bring new sharing mechanisms how resource allocation amongst bands including offload mechanisms shall be solved The key focus will be on how rich data analysis can improve the delivery of above defined services

**Smart Grid Applications and Developments** Daphne Mah,Peter Hills,Victor O.K. Li,Richard Balme,2014-07-25 Meeting today s energy and climate challenges require not only technological advancement but also a good understanding of stakeholders perceptions political sensitivity well informed policy analyses and innovative interdisciplinary solutions This book will fill this gap This is an interdisciplinary informative book to provide a holistic and integrated understanding of the technology stakeholder policy interactions of smart grid technologies The unique features of the book include the following a interdisciplinary approach by bringing in the policy dimensions to smart grid technologies b global and Asian perspective and c learning from national case studies This book is organised into five sections Part 1 discusses the historical and conceptual aspects of smart grids Part 2 introduces the technological aspects and showcase the state of the art of the technologies Part 3 explores the policy and governance dimensions by bringing in a stakeholder perspective Part 4 presents a collection of national case studies Part 5 shares insights and lesson learnt and provide policy recommendations This book showcases the state of the art R D developments and policy experiences This book contributes to a better understanding of governance institution and policy challenges and helps formulate policy recommendations for successful smart grid deployment

**ECCWS 2020 19th European Conference on Cyber Warfare and Security** Dr Thaddeus Eze,Dr Lee Speakman,Dr Cyril Onwubiko,2020-06-25 These proceedings represent the work of contributors to the 19th European Conference on Cyber Warfare and Security ECCWS 2020 supported by University of Chester UK on 25 26 June 2020 The Conference Co chairs are Dr Thaddeus Eze and Dr Lee Speakman both from University of Chester and the

Programme Chair is Dr Cyril Onwubiko from IEEE and Director Cyber Security Intelligence at Research Series Limited ECCWS is a well established event on the academic research calendar and now in its 19th year the key aim remains the opportunity for participants to share ideas and meet The conference was due to be held at University of Chester UK but due to the global Covid 19 pandemic it was moved online to be held as a virtual event The scope of papers will ensure an interesting conference The subjects covered illustrate the wide range of topics that fall into this important and ever growing area of research *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

**Canadian Electronics Engineering**, 1971 *Orthogonal Waveforms and Filter Banks for Future Communication Systems* Markku Renfors, Xavier Mestre, Eleftherios Kofidis, Faouzi Bader, 2017-07-14 *Orthogonal Waveforms and Filter Banks for Future Communication Systems* provides an up to date account of orthogonal filter bank based multicarrier FBMC systems and their applications in modern and future communications highlighting the crucial role that advanced multicarrier waveforms play It is an up to date overview of the theory algorithms design and applications of FBMC systems at both the link and system levels that demonstrates the various gains offered by FBMC over existing transmission schemes via both simulation and test bed experiments Readers will learn the requirements and challenges of advanced waveform design for future communication systems existing FBMC approaches application areas and their implementation In addition the state of the art in PHY and MAC layer solutions based on FBMC techniques including theoretical algorithmic and implementation aspects are explored Presents a unique and up to date source for signal processing communications researchers and practitioners Presents a homogeneous comprehensive presentation of the subject Covers offset QAM based FBMC FBMC OQAM and its variants including its history signal processing interest and potential for maximum spectral efficiency among other features

**Advanced Power Electronics Converters for Future Renewable Energy Systems** Neeraj Priyadarshi, P. Sanjeevikumar, Farooque Azam, C. Bharatiraja, Rajesh Singh, 2023-03-31 This book narrates an assessment of numerous advanced power converters employed on primitive phase to enhance the efficiency of power translation pertaining to renewable energy systems It presents the mathematical modelling analysis and control of recent power converters topologies namely AC DC DC DC and DC AC converters Numerous advanced DC DC Converters namely multi input DC DC Converter Cuk SEPIC Zeta and so forth have been assessed mathematically using state space analysis applied with an aim to enhance power efficiency of renewable energy systems The book Explains various power electronics converters for different

types of renewable energy sources Provides a review of the major power conversion topologies in one book Focuses on experimental analysis rather than simulation work Recommends usage of MATLAB PSCAD and PSIM simulation software for detailed analysis Includes DC DC converters with reasonable peculiar power rating This book is aimed at researchers graduate students in electric power engineering power and industrial electronics and renewable energy An Introduction to the Description and Evaluation of Microwave Systems Using Terminal Invariant Parameters Glenn F. Engen, 1969 **5G Outlook Innovations and Applications** Ramjee Prasad, 2022-09-01 5G Outlook Innovations and Applications is a collection of the recent research and development in the area of the Fifth Generation Mobile Technology 5G the future of wireless communications Plenty of novel ideas and knowledge of the 5G are presented in this book as well as divers applications from health science to business modeling The authors of different chapters contributed from various countries and organizations The chapters have also been presented at the 5th IEEE 5G Summit held in Aalborg on July 1 2016 The book starts with a comprehensive introduction on 5G and its need and requirement Then millimeter waves as a promising spectrum to 5G technology is discussed The book continues with the novel and inspiring ideas for the future wireless communication usage and network Further some technical issues in signal processing and network design for 5G are presented Finally the book ends up with different applications of 5G in distinct areas Topics widely covered in this book are 5G technology from past to present to the future Millimeter waves and their characteristics Signal processing and network design issues for 5G Applications business modeling and several novel ideas for the future of 5G **Next Generation Wireless Terahertz Communication Networks** Saim Ghafoor, Mubashir Husain Rehmani, Alan Davy, 2021-08-10 The rapid growth of the data traffic demands new ways to achieve high speed wireless links The backbone networks data centers mission critical applications as well as end users sitting in office or home all require ultra high throughput and ultra low latency wireless links Sophisticated technological advancement and huge bandwidth are required to reduce the latency Terahertz band in this regard has a huge potential to provide these high capacity links where a user can download the file in a few seconds To realize the high capacity wireless links for future applications in this book different aspects of the Terahertz band wireless communication network are presented This book highlights the Terahertz channel characteristics and modeling antenna design and beamforming device characterization applications and protocols It also provides state of the art knowledge on different communication aspects of Terahertz communication and techniques to realize the true potential of the Terahertz band for wireless communication *Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications* Tran Khanh Dang, Josef Küng, Tai M. Chung, 2023-11-17 This book constitutes the proceedings of the 10th International Conference on Future Data and Security Engineering Big Data Security and Privacy Smart City and Industry 4 0 Applications FDSE 2023 held in Da Nang Vietnam during November 22 24 2023 The 38 full papers and 8 short papers were carefully reviewed and selected from 135 submissions They were organized in topical sections as follows big

data analytics and distributed systems security and privacy engineering machine learning and artificial intelligence for security and privacy smart city and industry 4.0 applications data analytics and healthcare systems and short papers security and data engineering

**Towards Trustworthy Elections** David Chaum, Markus Jakobsson, Ronald L. Rivest, Peter Y. A. Ryan, Josh Benaloh, Mirosław Kutylowski, Ben Adida, 2010-06-09 State of the art report source unknown

[Introduction to Multimedia Communications](#) Kamisetty Rao, Zoran Bojkovic, Dragorad Milovanovic, 2006-01-10 A comprehensive resource on multimedia communications Covers recent trends and standardization activities in multimedia communications such as layered structures underlying theories and the current best design techniques Describes the convergence of various technologies including communications broadcasting information technology and home electronics and emerging new communication services and applications resulting from the growth of the Internet and wireless technologies Please go to [www.ee.uta.edu/dip](http://www.ee.uta.edu/dip) for additional information

[Chinese Journal of Electronics](#), 2003

[Cities' Identity Through Architecture and Arts](#) Anna Catalani, Zeinab Nour, Antonella Versaci, Dean Hawkes, Hocine Bougdah, Adolf Sotoca, Mahmoud Ghoneem, Ferdinando Trapani, 2018-05-01 Every city has its unique and valuable identity this identity is revealed through its physical and visual form it is seen through the eyes of its residents and users The city develops over time and its identity evolves with it Reflecting the rapid and constant changes the city is subjected to Architecture and Arts is the embodiment of the cultural historical and economical characteristics of the city This conference was dedicated to the investigation of the different new approaches developed in Architecture and Contemporary arts It has focused on the basis of urban life and identities This volume provides discussions on the examples and tendencies in dealing with urban identities as well as the transformation of cities and urban cultures mentioned in terms of their form identity and their current art Contemporary art when subjected to experiments continues to be produced in various directions to be consumed and to put forward new ideas Art continuously renews itself from new materials to different means of communication from interactive works to computer games from new approaches to perceptual paradigms and problems of city and nature of the millennium This is an Open Access ebook and can be found on [www.taylorfrancis.com](http://www.taylorfrancis.com)

**E-Collaboration Technologies and Organizational Performance: Current and Future Trends** Kock, Ned, 2010-12-31 This book reviews recent advances in the e collaboration discipline with a focus on virtual teams firm performance social capital formation and Web based communities Provided by publisher

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### **Table of Contents Ieee Electronics And Communication Project Papers Doc**

1. Understanding the eBook Ieee Electronics And Communication Project Papers Doc
  - The Rise of Digital Reading Ieee Electronics And Communication Project Papers Doc
  - Advantages of eBooks Over Traditional Books
2. Identifying Ieee Electronics And Communication Project Papers Doc
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ieee Electronics And Communication Project Papers Doc
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ieee Electronics And Communication Project Papers Doc
  - Personalized Recommendations
  - Ieee Electronics And Communication Project Papers Doc User Reviews and Ratings
  - Ieee Electronics And Communication Project Papers Doc and Bestseller Lists



5. Accessing Ieee Electronics And Communication Project Papers Doc Free and Paid eBooks
  - Ieee Electronics And Communication Project Papers Doc Public Domain eBooks
  - Ieee Electronics And Communication Project Papers Doc eBook Subscription Services
  - Ieee Electronics And Communication Project Papers Doc Budget-Friendly Options
6. Navigating Ieee Electronics And Communication Project Papers Doc eBook Formats
  - ePub, PDF, MOBI, and More
  - Ieee Electronics And Communication Project Papers Doc Compatibility with Devices
  - Ieee Electronics And Communication Project Papers Doc Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ieee Electronics And Communication Project Papers Doc
  - Highlighting and Note-Taking Ieee Electronics And Communication Project Papers Doc
  - Interactive Elements Ieee Electronics And Communication Project Papers Doc
8. Staying Engaged with Ieee Electronics And Communication Project Papers Doc
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ieee Electronics And Communication Project Papers Doc
9. Balancing eBooks and Physical Books Ieee Electronics And Communication Project Papers Doc
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ieee Electronics And Communication Project Papers Doc
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ieee Electronics And Communication Project Papers Doc
  - Setting Reading Goals Ieee Electronics And Communication Project Papers Doc
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ieee Electronics And Communication Project Papers Doc
  - Fact-Checking eBook Content of Ieee Electronics And Communication Project Papers Doc
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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