

is a hybrid system that combines both pattern matching and k-NN results [51] via manually-developed rules and continues to be improved over the years [52, 53]. The proposed method in this work is also a hybrid system but unlike MTI, which only uses machine learning to predict a small set of MeSH terms, it combines individual results and ranks the entire set of recommendations through machine learning instead of heuristic rules.

Despite these efforts, automatic MeSH indexing remains a challenging task: the current state-of-the-art performance remains at about 0.6 in F-measure [54]. Several factors contribute to this performance bottleneck: First, since each PubMed article can be assigned with multiple MeSH terms, i.e. class labels, the task of automatic MeSH indexing can be seen as a multi-class classification problem. In this regard, the size of the MeSH vocabulary makes automatic classification challenging: 2014 MeSH includes more than 27,000 main subject headings and they are not equally used in indexing [31]. Second, MeSH indexing is a highly complex cognitive task. It has been reported that the consistency between human indexers is only 48.2% for main heading assignment [55]. Lastly, both the MeSH vocabulary and indexing principles keep evolving over time. For instance, in response to emerging new concepts in the biomedical research, MeSH 2014 includes almost five times more concepts than the edition of MeSH in 1963 that only contains 5,700 descriptors. On the other hand, the articles in PubMed are not re-indexed when MeSH gets updated. Thus, it is not always obvious in selecting benchmarking data sets for system development and comparison.

In this paper, we propose a new method, MeSH Now, to the automatic MeSH indexing task. MeSH Now is built on our previous research [3] but has a number of significant advancements: First, MeSH Now combines different methods through machine learning. Second, new post-processing and list-pruning steps are now added in MeSH Now for improved performance. Third, from a technical perspective, MeSH Now is optimized using the latest MeSH lexicon and recent indexed articles for system training and development. Finally, MeSH Now is implemented to operate in a parallel computing environment, making it possible for large-scale processing needs (e.g., providing computer results of new PubMed articles for assisting human indexing). For evaluation, we first test MeSH Now on a previous dataset that was widely used in benchmarking. Furthermore, we created a new benchmarking dataset based on the recent BioASQ 2014 challenge task data. Our experimental results show that MeSH Now achieves state-of-the-art performance on both data sets.

2 Methods

2.1 Approach overview

Our approach reformulates the MeSH indexing task as a ranking problem. Figure 2 shows the three main steps: First, given a target article, we obtain an initial list of candidate MeSH terms from three unique sources. Next, we apply a learning-to-rank algorithm to sort the candidate MeSH terms based on the learned associations between the document text and each candidate MeSH term. Finally, we prune the ranked list and return a number of top candidates as the final system output. Prior to these steps, some standard text processing was performed such as removing stop words and applying a word-stemming algorithm.

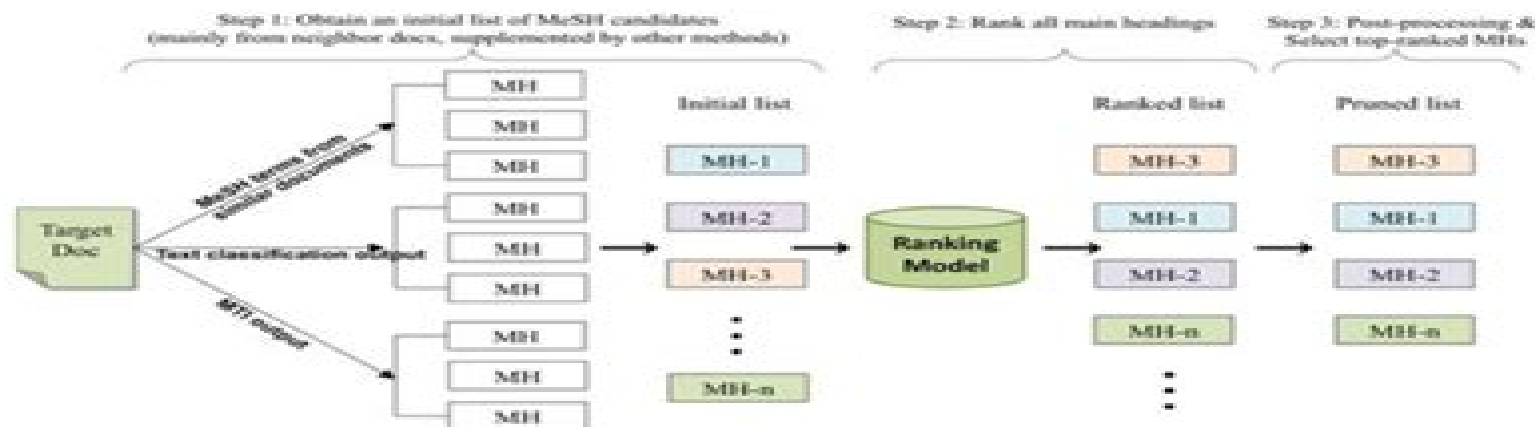



Fig. 2: System overview

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**Philipp Beckerle, Maziar Ahmad
Sharbafi, Tom Verstraten, Peter P.
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Biomechanics of the Upper Limbs Andris Freivalds, 2004-06-29 The repetitive tasks of various forms of manual work can lead to cumulative trauma disorders increasing staff burn out rates and the number of sick days taken by employees In addition interest in upper extremity musculoskeletal disorders has grown as the service sector has claimed a larger share of the workforce These factors introduce the need for an up to date text that combines basic biomechanics with practical bioengineering issues *Biomechanics of the Upper Limbs Mechanics Modeling and Musculoskeletal Injuries* is an engineering oriented book focusing on upper extremity musculoskeletal disorders as opposed to the more general introductions to cumulative trauma disorders and medical management related books It covers musculoskeletal components of the upper extremities their models and the measurement and prediction of injury potential Students and professionals will find it provides an excellent basic grounding in the subject Topics include A basic introduction to biomechanical principles Gross structure of the musculoskeletal system including bone and soft tissue Organization of muscles and muscle anatomy types of fibers contractile theories and muscle receptors Modeling of muscle mechanics Models of the upper limbs Types of musculoskeletal disorders and the scientific evidence for risk factors as well as epidemiology Instrumentation for motion pressure force and nerve conduction measurements and electromyography Job and worksite analysis Hand tools Office environment seating and computer devices Fundamentals of Biomechanics Duane Knudson, 2013-04-17 *Fundamentals of Biomechanics* introduces the exciting world of how human movement is created and how it can be improved Teachers coaches and physical therapists all use biomechanics to help people improve movement and decrease the risk of injury The book presents a comprehensive review of the major concepts of biomechanics and summarizes them in nine principles of biomechanics *Fundamentals of Biomechanics* concludes by showing how these principles can be used by movement professionals to improve human movement Specific case studies are presented in physical education coaching strength and conditioning and sports medicine *Biomechanics in Orthopaedic Diseases and Surgery* Jingwei Zhang, Cheng-Kung Cheng, Chia-Ying Lin, 2025-01-30 The mechanical environment of the musculoskeletal system plays a fundamental role in orthopaedic diseases Understanding the magnitude pattern and duration of biomechanical factors and how they impact surgical treatment is an ongoing topic of interest in biomechanics However the way forces and stresses acting on the skeletal system affect disease progression and treatment outcomes is not yet fully elucidated As a result investigating the biomechanical responses in the incidence and surgical treatment of orthopaedic diseases such as osteoarthritis can significantly enhance existing surgical treatment strategies and foster the development of new pharmaceutical interventions Our goal is to consolidate groundbreaking studies in this field to advance the understanding of the biomechanical principles underlying disease progression and create a foundation for novel therapeutic strategies **Pregnant Occupant Biomechanics** Stefan Duma, 2011-04-05 This ground breaking book provides substantial new analysis and summary data

about pregnant occupant biomechanics and will serve as a critical asset to anyone in the field of automobile safety The overall goal of this book is to provide the reader with a complete resource for issues relating to the pregnant occupant This multi authored book is thoroughly vetted and includes chapter contributions from highly qualified practitioners in the field A total of 19 technical papers are featured and are broken into six chapters Each chapter begins with a brief summary and analysis of the research for that topic and is followed by a selection of references The remainder of the chapter includes a selection of the very best full length technical papers on the topic which are intended to provide depth and compliment the new material

Computational Biomechanics for Medicine Karol Miller,Poul Nielsen,2010-03-10 Mathematical modelling and computer simulation have proved tremendously successful in engineering One of the greatest challenges for mechanists is to extend the success of computational mechanics to fields outside traditional engineering in particular to biology biomedical sciences and medicine The proposed workshop will provide an opportunity for computational biomechanics specialists to present and exchange opinions on the opportunities of applying their techniques to computer integrated medicine For example continuum mechanics models provide a rational basis for analysing biomedical images by constraining the solution to biologically reasonable motions and processes Biomechanical modelling can also provide clinically important information about the physical status of the underlying biology integrating information across molecular tissue organ and organism scales The main goal of this workshop is to showcase the clinical and scientific utility of computational biomechanics in computer integrated medicine

Spine and Joint Articulation for Manual Therapists Giles Gyer,Jimmy Michael,Ben Calvert-Painter,2016-09-01 The book focuses on the practical application of articulation and mobilisation techniques with clear explanations and visual support of the techniques Techniques are described for all body regions Most other books for therapists include only one chapter on these important techniques This book covers a variety of best practise techniques for all areas of the body Examples are given to show how to adapt the techniques with the patient in different positions It also addresses the use of these techniques on children the elderly and pregnant women The mechanisms of each technique are explained with reference to the related anatomy and physiology Information is also given to help the therapist use the techniques safely for both themselves and their patients by adapting their own stance and posture to get maximum effect with minimum effort

Reading Prehistoric Human Tracks Andreas Pastoors,Tilman Lenssen-Erz,2021-02-26 This Open Access book explains that after long periods of prehistoric research in which the importance of the archaeological as well as the natural context of rock art has been constantly underestimated research has now begun to take this context into focus for documentation analysis interpretation and understanding Human footprints are prominent among the long time under researched features of the context in caves with rock art In order to compensate for this neglect an innovative research program has been established several years ago that focuses on the merging of indigenous knowledge and western archaeological science for the benefit of both sides The book gathers first the

methodological diversity in the analysis of human tracks Here major representatives of anthropological statistical and traditional approaches feature the multi layered methods available for the analysis of human tracks Second it compiles case studies from around the globe of prehistoric human tracks For the first time the most important sites which have been found worldwide are published in a single publication The third focus of this book is on firsthand experiences of researchers with indigenous tracking experts from around the globe expounding on how archaeological science can benefit from the ancestral knowledge This book will be of interest to professional archaeologists graduate students ecologists cultural anthropologists and laypeople especially those focussing on hunting gathering and pastoralist communities and who appreciate indigenous knowledge

Routledge Handbook of Motor Control and Motor Learning Albert Gollhofer, Wolfgang Taube, Jens Bo Nielsen, 2013-01-17 The Routledge Handbook of Motor Control and Motor Learning is the first book to offer a comprehensive survey of neurophysiological behavioural and biomechanical aspects of motor function Adopting an integrative approach it examines the full range of key topics in contemporary human movement studies explaining motor behaviour in depth from the molecular level to behavioural consequences The book contains contributions from many of the world's leading experts in motor control and motor learning and is composed of five thematic parts Theories and models Basic aspects of motor control and learning Motor control and learning in locomotion and posture Motor control and learning in voluntary actions Challenges in motor control and learning Mastering and improving motor control may be important in sports but it becomes even more relevant in rehabilitation and clinical settings where the prime aim is to regain motor function Therefore the book addresses not only basic and theoretical aspects of motor control and learning but also applied areas like robotics modelling and complex human movements This book is both a definitive subject guide and an important contribution to the contemporary research agenda It is therefore important reading for students scholars and researchers working in sports and exercise science kinesiology physical therapy medicine and neuroscience

Perspectives in Dynamical Systems II — Numerical and Analytical Approaches Jan Awrejcewicz, 2024-06-18 This proceedings volume gathers selected peer reviewed papers presented at the Dynamical Systems Theory and Applications International Conference DSTA 2021 held virtually on December 6-9 2021 organized by the Department of Automation Biomechanics and Mechatronics at Lodz University of Technology Poland This volume focuses on numerical and analytical approaches while Volume I concentrates on studies on applications Being a truly international conference this 16th iteration of DSTA received submissions from authors representing 52 countries The program covered both theoretical and experimental approaches to widely understood dynamical systems including topics devoted to bifurcations and chaos control in dynamical systems asymptotic methods in nonlinear dynamics stability of dynamical systems lumped mass and continuous systems vibrations original numerical methods of vibration analysis non smooth systems dynamics in life sciences and bioengineering as well as engineering systems and differential equations DSTA conferences aim to provide a common platform for exchanging new ideas and

results of recent research in scientific and technological advances in modern dynamical systems Works contained in this volume can appeal to researchers in the field whether in mathematics or applied sciences and practitioners in myriad industries

Research Methods in Biomechanics D. Gordon E. Robertson, Graham E. Caldwell, Joseph Hamill, Gary Kamen, Saunders Whittlesey, 2013-11-01 Research Methods in Biomechanics Second Edition demonstrates the range of available research techniques and how to best apply this knowledge to ensure valid data collection In the highly technical field of biomechanics research methods are frequently upgraded as the speed and sophistication of software and hardware technologies increase With this in mind the second edition includes up to date research methods and presents new information detailing advanced analytical tools for investigating human movement Expanded into 14 chapters and reorganized into four parts the improved second edition features more than 100 new pieces of art and illustrations and new chapters introducing the latest techniques and up and coming areas of research Additional enhancements in this edition include the following Special features called From the Scientific Literature highlight the ways in which biomechanical research techniques have been used in both classic and cutting edge studies An overview summary and list of suggested readings in each chapter guide students and researchers through the content and on to further study Sample problems appear in select chapters and answers are provided at the end of the text Appendixes contain mathematical and technical references and additional examples A glossary provides a reference for terminology associated with human movement studies Research Methods in Biomechanics Second Edition assists readers in developing a comprehensive understanding of methods for quantifying human movement Parts I and II of the text examine planar and three dimensional kinematics and kinetics in research issues of body segment parameters and forces and energy work and power as they relate to analysis of two and three dimensional inverse dynamics Two of the chapters have been extensively revised to reflect current research practices in biomechanics in particular the widespread use of Visual3D software In part III readers can explore the use of musculoskeletal models in analyzing human movement This part also discusses electromyography computer simulation muscle modeling and musculoskeletal modeling it presents new information on MRI and ultrasound use in calculating muscle parameters Part IV offers a revised chapter on additional analytical procedures including signal processing techniques Also included is a new chapter on movement analysis and dynamical systems which focuses on how to assess and measure coordination and stability in changing movement patterns and the role of movement variability in health and disease In addition readers will find discussion of statistical tools useful for identifying the essential characteristics of any human movement The second edition of Research Methods in Biomechanics explains the mathematics and data collection systems behind both simple and sophisticated biomechanics It assists both beginning and experienced researchers in developing their methods for analyzing and quantifying human movement

Reactive and Functional Polymers Volume Three Tomy J. Gutiérrez, 2020-10-24 Reactive and functional polymers are manufactured with the aim of improving the performance of

unmodified polymers or providing functionality for different applications These polymers are created mainly through chemical reactions but there are other important modifications that can be carried out by physical alterations in order to obtain reactive and functional polymers This volume presents a comprehensive analysis of these reactive and functional polymers Reactive and Functional Polymers Volume Three considers advanced polymeric materials such as electroactive polymers multi responsive polymers shape memory polymers stimuli responsive polymers and active and intelligent polymers as topics for analysis World renowned researchers from Argentina Austria China Egypt France India Iran Japan Pakistan Romania and Spain have participated in this book With its comprehensive scope and up to date coverage of issues and trends in Reactive and Functional Polymers this is an outstanding book for students professors researchers and industrialists working in the field of polymers and plastic materials

Sports Biomechanics Melanie Bussey, 2013-06-17 When working with sports men and women the biomechanist is faced with two apparently incompatible goals reducing injury risk and improving sports performance Now in a fully updated and revised edition Sports Biomechanics introduces the fundamental principles that underpin our understanding of the biomechanics of both sports injury and performance and explains how contemporary biomechanical science can be used to meet both of those goals simultaneously The first four chapters of this book look closely at sports injury including topics such as the properties of biological materials mechanisms of injury occurrence risk reduction and the estimation of forces in biological structures The last four chapters concentrate on the biomechanical enhancement of sports performance including analytical techniques statistical and mathematical modelling of sports movements and the use of feedback to enhance sports performance Drawing on the very latest empirical and epidemiological data and including clear concise summaries self test questions and guides to further reading in every chapter this book is essential reading for all advanced undergraduate and postgraduate students with an interest in biomechanics sports injury sports medicine physical therapy or performance analysis Visit the companion website at www.routledge.com/cw/bartlett

Introduction to Sports Biomechanics Roger Bartlett, 2007-10-25 Introduction to Sports Biomechanics provides a genuinely accessible and comprehensive guide to all of the biomechanics topics covered in an undergraduate sports and exercise science degree Now revised and in its second edition Introduction to Sports Biomechanics is full of visual aids to support the text Every chapter contains cross references to key terms and definitions from that chapter learning objectives and summaries study tasks to confirm and extend your understanding and suggestions to further your reading Clearly structured and with many student friendly features the text covers movement patterns exploring the essence and purpose of movement analysis qualitative analysis of sports movements movement patterns and the geometry of motion quantitative measurement and analysis of movement force and torques causes of movement the human body and the anatomy of movement This edition is supported by a website containing animation and video clips and offers sample data tables for comparison and analysis and multiple choice questions to confirm your understanding of the material in each chapter

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Novel Bioinspired Actuator Designs for Robotics Philipp Beckerle, Maziar Ahmad Sharbafi, Tom Verstraten, Peter P. Pott, André Seyfarth, 2021-09-04 This book discusses biologically inspired robotic actuators designed to offer improved robot performance and approaching human like efficiency and versatility It assesses biological actuation and control in the human motor system presents a range of technical actuation approaches and discusses potential applications in wearable robots i e powered prostheses and exoskeletons Gathering the findings of internationally respected researchers from various fields the book provides a uniquely broad perspective on bioinspired actuator designs for robotics Its scope includes fundamental aspects of biomechanics and neuromechanics actuator and control design and their application in wearable robotics The book offers PhD students and advanced graduate students an essential introduction to the field while providing researchers a cutting edge research perspective

A Comprehensive Guide to Sports Physiology and Injury Management Stuart Porter, Johnny Wilson, 2020-11-13 Divided into two parts physiology and sports injury management this is an innovative clinical and evidence based guide which engages with the latest developments in athletic performance both long and short term It also considers lower level exercise combined with the pertinent physiological processes It focuses on the rationale behind diagnostic work up treatment bias and rehabilitation philosophy challenging convention within the literature to what really makes sense when applied to sports settings Drawing upon experts in the field from across the world and various sports settings it implements critical appraisal throughout with an emphasis on providing practical solutions within sports medicine pedagogy Dovetails foundational sports physiology with clinical skills and procedures to effectively manage sports injuries across a variety of settings Takes an interdisciplinary approach and draws upon both clinical and evidence based practice Contributed by leading international experts including academics researchers and in the field clinicians from a range of sports teams including the Royal Ballet and Chelsea FC Pedagogical features include learning objectives clinical tip boxes summaries case studies and Editor s commentary to critique of concepts and techniques across chapters

3rd Kuala Lumpur International Conference on Biomedical Engineering 2006 F. Ibrahim, N.A. Abu Osman, J. Usman, N.A. Kadri, 2007-04-28 The Kuala Lumpur International Conference on Biomedical Engineering BioMed 2006 was held in December 2006 at the Palace of the Golden Horses Kuala Lumpur Malaysia The papers presented at BioMed 2006 and published here cover such topics as Artificial Intelligence Biological effects of non ionising electromagnetic fields Biomaterials Biomechanics Biomedical Sensors Biomedical Signal Analysis Biotechnology Clinical Engineering Human performance engineering Imaging Medical Informatics Medical Instruments and Devices and many more

Statistical and Biomechanical Prediction of Automobile Driving Posture Matthew P. Reed, 1998

Frontiers in Nano-therapeutics Nishat Tasnim, Baiju G. Nair, Katla Sai Krishna, Sudhakar Kalagara, Mahesh Narayan, Juan C. Noveron, Binata

Joddar,2017-06-22 This brief highlights recent research advances in the area of nano therapeutics Nanotechnology holds immense potential for application in a wide range of biological and engineering applications such as molecular sensors for disease diagnosis therapeutic agents for the treatment of diseases a vehicle for delivering therapeutics and imaging agents for theranostic applications both in vitro and in vivo The brief is grouped into the following sections namely A Discrete Nanosystems B Anisotropic Nanoparticles C Nano films coated layered and D Nano composites **Finite Element Mesh Generation** Daniel S.H. Lo,2015-01-15 Highlights the Progression of Meshing Technologies and Their Applications Finite Element Mesh Generation provides a concise and comprehensive guide to the application of finite element mesh generation over 2D domains curved surfaces and 3D space Organised according to the geometry and dimension of the problem domains it develops from the basic meshing algorithms to the most advanced schemes to deal with problems with specific requirements such as boundary conformity adaptive and anisotropic elements shape qualities and mesh optimization It sets out the fundamentals of popular techniques including Delaunay triangulation Advancing front ADF approach Quadtree Octree techniques Refinement and optimization based strategies From the geometrical and the topological aspects and their associated operations and inter relationships each approach is vividly described and illustrated with examples Beyond the algorithms the book also explores the practice of using metric tensor and surface curvatures for generating anisotropic meshes on parametric space It presents results from research including 3D anisotropic meshing mesh generation over unbounded domains meshing by means of intersection re meshing by Delaunay ADF approach mesh refinement and optimization generation of hexahedral meshes and large scale and parallel meshing along with innovative unpublished meshing methods The author provides illustrations of major meshing algorithms pseudo codes and programming codes in C or FORTRAN Geared toward research centers universities and engineering companies Finite Element Mesh Generation describes mesh generation methods and fundamental techniques and also serves as a valuable reference for laymen and experts alike *Biomechanics and Gait Analysis* Nicholas Stergiou,2020-03-25 Biomechanics and Gait Analysis presents a comprehensive book on biomechanics that focuses on gait analysis It is written primarily for biomedical engineering students professionals and biomechanists with a strong emphasis on medical devices and assistive technology but is also of interest to clinicians and physiologists It allows novice readers to acquire the basics of gait analysis while also helping expert readers update their knowledge The book covers the most up to date acquisition and computational methods and advances in the field Key topics include muscle mechanics and modeling motor control and coordination and measurements and assessments This is the go to resource for an understanding of fundamental concepts and how to collect analyze and interpret data for research industry clinical and sport Details the fundamental issues leading to the biomechanical analyses of gait and posture Covers the theoretical basis and practical aspects associated with gait analysis Presents methods and tools used in the field including electromyography signal processing and spectral analysis amongst others

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Table of Contents Template Journal Of Biomechanics

1. Understanding the eBook Template Journal Of Biomechanics
 - The Rise of Digital Reading Template Journal Of Biomechanics
 - Advantages of eBooks Over Traditional Books
2. Identifying Template Journal Of Biomechanics
 - 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 Template Journal Of Biomechanics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Template Journal Of Biomechanics
 - Personalized Recommendations
 - Template Journal Of Biomechanics User Reviews and Ratings
 - Template Journal Of Biomechanics and Bestseller Lists
5. Accessing Template Journal Of Biomechanics Free and Paid eBooks
 - Template Journal Of Biomechanics Public Domain eBooks
 - Template Journal Of Biomechanics eBook Subscription Services
 - Template Journal Of Biomechanics Budget-Friendly Options

6. Navigating Template Journal Of Biomechanics eBook Formats
 - ePub, PDF, MOBI, and More
 - Template Journal Of Biomechanics Compatibility with Devices
 - Template Journal Of Biomechanics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Template Journal Of Biomechanics
 - Highlighting and Note-Taking Template Journal Of Biomechanics
 - Interactive Elements Template Journal Of Biomechanics
8. Staying Engaged with Template Journal Of Biomechanics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Template Journal Of Biomechanics
9. Balancing eBooks and Physical Books Template Journal Of Biomechanics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Template Journal Of Biomechanics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Template Journal Of Biomechanics
 - Setting Reading Goals Template Journal Of Biomechanics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Template Journal Of Biomechanics
 - Fact-Checking eBook Content of Template Journal Of Biomechanics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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