FOR BIOMEDICAL APPLICATIONS

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Mathematics And Computers In Biomedical Applications

Denise Guliato, Rangaraj Rangayyan

Mathematics And Computers In Biomedical Applications:

Modeling and Analysis of Shape with Applications in Computer-aided Diagnosis of Breast Cancer Denise Guliato, Rangaraj Rangayyan, 2022-05-31 Malignant tumors due to breast cancer and masses due to benign disease appear in mammograms with different shape characteristics the former usually have rough spiculated or microlobulated contours whereas the latter commonly have smooth round oval or macrolobulated contours Features that characterize shape roughness and complexity can assist in distinguishing between malignant tumors and benign masses In spite of the established importance of shape factors in the analysis of breast tumors and masses difficulties exist in obtaining accurate and artifact free boundaries of the related regions from mammograms Whereas manually drawn contours could contain artifacts related to hand tremor and are subject to intra observer and inter observer variations automatically detected contours could contain noise and inaccuracies due to limitations or errors in the procedures for the detection and segmentation of the related regions Modeling procedures are desired to eliminate the artifacts in a given contour while preserving the important and significant details present in the contour This book presents polygonal modeling methods that reduce the influence of noise and artifacts while preserving the diagnostically relevant features in particular the spicules and lobulations in the given contours In order to facilitate the derivation of features that capture the characteristics of shape roughness of contours of breast masses methods to derive a signature based on the turning angle function obtained from the polygonal model are described Methods are also described to derive an index of spiculation an index characterizing the presence of convex regions an index characterizing the presence of concave regions an index of convexity and a measure of fractal dimension from the turning angle function Results of testing the methods with a set of 111 contours of 65 benign masses and 46 malignant tumors are presented and discussed It

is shown that shape modeling and analysis can lead to classification accuracy in discriminating between benign masses and malignant tumors in terms of the area under the receiver operating characteristic curve of up to 0 94 The methods have applications in modeling and analysis of the shape of various types of regions or objects in images computer vision computer graphics and analysis of biomedical images with particular significance in computer aided diagnosis of breast cancer Table of Contents Analysis of Shape Polygonal Modeling of Contours Shape Factors for Pattern Classification Classification of Breast Biomedical Computing Joseph A. November, 2012-06 Resource added for the Health Information Technology Masses Mathematical Models and Computer Simulations for Biomedical Applications Gabriella program 105301 Bretti, Roberto Natalini, Pasquale Palumbo, Luigi Preziosi, 2023-09-17 Mathematical modelling and computer simulations are playing a crucial role in the solution of the complex problems arising in the field of biomedical sciences and provide a support to clinical and experimental practices in an interdisciplinary framework Indeed the development of mathematical models and efficient numerical simulation tools is of key importance when dealing with such applications Moreover since the parameters in biomedical models have peculiar scientific interpretations and their values are often unknown accurate estimation techniques need to be developed for parameter identification against the measured data of observed phenomena In the light of the new challenges brought by the biomedical applications computational mathematics paves the way for the validation of the mathematical models and the investigation of control problems. The volume hosts high quality selected contributions containing original research results as well as comprehensive papers and survey articles including prospective discussion focusing on some topical biomedical problems It is addressed but not limited to research institutes academia and pharmaceutical industries Metaheuristics Algorithms for Medical Applications Mohamed Abdel-Basset, Reda Mohamed, Mohamed Elhoseny, 2023-11-25 Metaheuristics Algorithms for Medical Applications Methods and Applications provides readers with the most complete reference for developing Metaheuristics techniques with Machine Learning for solving biomedical problems The book is organized to present a stepwise progression beginning with the basics of Metaheuristics leading into methods and practices and concluding with advanced topics The first section of the book presents the fundamental concepts of Metaheuristics and Machine Learning and also provides a comprehensive taxonomic view of Metaheuristics methods according to a variety of criteria such as data type scope method and so forth The second section of the book explains how to apply Metaheuristics techniques for solving large scale biomedical problems including analysis and validation under different strategies The final portion of the book focuses on advanced topics in Metaheuristics in four different applications Readers will discover a variety of new methods approaches and techniques as well as a wide range of applications demonstrating key concepts in Metaheuristics for biomedical science The book provides a leading edge resource for researchers in a variety of scientific fields who are interested in metaheuristics including mathematics biomedical engineering computer science biological sciences and clinicians in medical practice Introduces a new set of

Metaheuristics techniques for biomedical applications Presents basic concepts of Metaheuristics methods and practices followed by advanced topics and applications Provides researchers practitioners and project stakeholders with a complete guide for understanding and applying metaheuristics and machine learning techniques in their projects and solutions

Computing Resources of the Division of Computer Research and Technology National Institutes of Health (U.S.). Annual Report National Institutes of Health (U.S.). Division of Division of Computer Research and Technology, 1988 Computer Research and Technology, 1989 Discrete Mathematical Problems with Medical Applications Dingzhu Du, Panos M. Pardalos, Jie Wang, 2000 This volume presents selected papers from a three day workshop held during the DIMACS special years on Mathematical Support for Molecular Biology Participants from the world over attended giving the workshop an important international component The study of discrete mathematics and optimization with medical applications is emerging as an important new research area Significant applications have been found in medical research for example in radiosurgical treatment planning virtual endoscopy and more This volume presents a substantive cross section of active research topics ranging from medical imaging to human anatomy modelling from gamma knife treatment planning to radiation therapy and from epileptic seizures to DNA screening This book is an up to date resource reflecting current research directions Soft Computing for Biomedical Applications and Related Topics Vladik Kreinovich, Nguyen Hoang Phuong, 2020-06-29 This book presents innovative intelligent techniques with an emphasis on their biomedical applications Although many medical doctors are willing to share their knowledge e g by incorporating it in computer based advisory systems that can benefit other doctors this knowledge is often expressed using imprecise fuzzy words from natural language such as small which are difficult for computers to process Accordingly we need fuzzy techniques to handle such words It is also desirable to extract general recommendations from the records of medical doctors decisions by using machine learning techniques such as neural networks The book describes state of the art fuzzy neural and other techniques especially those that are now being used or potentially could be used in biomedical applications Accordingly it will benefit all researchers and students interested in the latest developments as well as practitioners who want to learn about new techniques Annotated Bibliography of Biomedical Computer Applications Ruth Allen, 1969 Over 900 references to monographic and journal literature about the use of computers in biology and medicine Emphasis in the annotations is on computer applications rather than on methods and results generally common to authors abstracts Entries arranged by topics under bibliographies monographs and articles Author subject indexes **Identifiability of Parametric Models** E. Walter, 2014-05-23 Identifiability of Parametric Models provides a comprehensive presentation of identifiability This book is divided into 11 chapters Chapter 1 reviews the basic methods for structural identifiability testing The methods that deal with large scale models and propose conjectures on global identifiability are considered in Chapter 2 while the problems of initial model selection and generating the set of models that have the exact same input output behavior are evaluated in Chapter 3

Chapters 4 and 5 cover nonlinear models The relations between identifiability and the well posedness of the estimation problem are analyzed in Chapter 6 followed by a description of the algebraic manipulations required for testing a model for structural controllability observability identifiability or distinguishability in chapter 7 The rest of the chapters are devoted to the relations between identifiability and parameter uncertainty This publication is beneficial to students and researchers aiming to acquire knowledge of the identifiability of parametric models An Annotated Bibliography of Biomedical **Computer Applications** National Library of Medicine (U.S.), Ruth Allen, 1969 Over 900 references to monographic and journal literature about the use of computers in biology and medicine Emphasis in the annotations is on computer applications rather than on methods and results generally common to authors abstracts Entries arranged by topics under bibliographies monographs and articles Author subject indexes Biomedical Informatics Edward H. Shortliffe, James J. Cimino, 2006-12-02 This book focuses on the role of computers in the provision of medical services It provides both a conceptual framework and a practical approach for the implementation and management of IT used to improve the delivery of health care Inspired by a Stanford University training program it fills the need for a high quality text in computers and medicine It meets the growing demand by practitioners researchers and students for a comprehensive introduction to key topics in the field Completely revised and expanded this work includes several new chapters filled with brand new material

Computer-aided Design and Diagnosis Methods for Biomedical Applications Varun Bajaj, G R Sinha, 2021-04-27 Computer aided design CAD plays a key role in improving biomedical systems for various applications It also helps in the detection identification predication analysis and classification of diseases in the management of chronic conditions and in the delivery of health services This book discusses the uses of CAD to solve real world problems and challenges in biomedical systems with the help of appropriate case studies and research simulation results Aiming to overcome the gap between CAD and biomedical science it describes behaviors concepts fundamentals principles case studies and future directions for research including the automatic identification of related disorders using CAD Features Proposes CAD for the study of biomedical signals to understand physiology and to improve healthcare systems ability to diagnose and identify health disorders Presents concepts of CAD for biomedical modalities in different disorders Discusses design and simulation examples issues and challenges Illustrates bio potential signals and their appropriate use in studying different disorders Includes case studies practical examples and research directions Computer Aided Design and Diagnosis Methods for Biometrical Applications is aimed at researchers graduate students in biomedical engineering image processing biomedical technology medical imaging and health informatics Soft Computing: Biomedical and Related Applications Nguyen Hoang Phuong, Vladik Kreinovich, 2021-06-16 This book lists current and potential biomedical uses of computational intelligence methods These methods are used in diagnostics and treatment of such diseases as cancer cardiac diseases pneumonia stroke and COVID 19 Many biomedical problems are difficult so often the current methods are not sufficient new methods need to

be developed To confidently apply the new methods to critical life and death medical situations it is important to first test these methods on less critical applications The book describes several such promising new methods that have been tested on problems from agriculture computer networks economics and business pavement engineering politics quantum computing robotics etc This book helps practitioners and researchers to learn more about computational intelligence methods and their biomedical applications and to further develop this important research direction **British Qualifications 2017** Kogan Page Editorial, 2016-12-03 Now in its 47th edition British Qualifications 2017 is the definitive one volume guide to every qualification on offer in the United Kingdom With an equal focus on vocational studies this essential quide has full details of all institutions and organizations involved in the provision of further and higher education and is an essential reference source for careers advisors students and employers It also includes a comprehensive and up to date description of the structure of further and higher education in the UK The book includes information on awards provided by over 350 professional institutions and accrediting bodies details of academic universities and colleges and a full description of the current framework of academic and vocational education It is compiled and checked annually to ensure accuracy of Recent Trends in Intelligent Computing and Communication Pushpa Choudhary, Sambit Satpathy, Arvind Dagur, Dhirendra Kumar Shukla, 2025-09-30 This book emerges from the exchange of research insights and innovative ideas in the domains of Artificial Intelligence Intelligent Computing Blockchain Communication and Security With a special emphasis on intelligent financial systems secure transactions real time monitoring and assistive technologies this proceedings compilation serves as a comprehensive resource on technologies shaping the digital era Key features of this book include A wide ranging exploration of current research trends in Artificial Intelligence and Blockchain with emphasis on their integration into secure and intelligent living systems Detailed illustrations of system models and architectures that portray real world AI applications In depth discussions on the practical role of AI and Blockchain in sectors like banking healthcare communication navigation and cybersecurity An analytical perspective on the challenges and future opportunities of deploying AI and Blockchain in healthcare education finance and other industries This book is intended for research scholars academicians undergraduate and postgraduate students Ph D candidates industry professionals technologists and entrepreneurs seeking to deepen their understanding of intelligent and secure systems NIH Almanac National Institutes of Health (U.S.). Division of Public Information, 1992 *Index of Conference Proceedings Received* British Library. Document Supply Centre, 1985

Mathematics And Computers In Biomedical Applications Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mathematics And Computers In Biomedical Applications**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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