

Computational Intelligence in Medical Decision Making and Diagnosis

Techniques and Applications



EDITED BY

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and Abhishek Choubey**



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Computational Intelligence Processing In Medical Diagnosis Computational Intelligence Processing In Medical Diagnosis

Margarita Sordo, Sachin Vaidya



Computational Intelligence Processing In Medical Diagnosis Computational Intelligence Processing In Medical Diagnosis:

Computational Intelligence Processing in Medical Diagnosis Manfred Schmitt, Horia-Nicolai Teodorescu, Ashlesha Jain, 2014-01-15 **Computational Intelligence in Medical Decision Making and Diagnosis** Sitendra Tamrakar, Shruti Bhargava Choubey, Abhishek Choubey, 2023-03-31

Computation intelligence CI paradigms including artificial neural networks fuzzy systems evolutionary computing techniques and intelligent agents form the basis of making clinical decisions This book explains different aspects of the current research on CI technologies applied in the field of medical diagnosis It discusses critical issues related to medical diagnosis like uncertainties in the medical domain problems in the medical data especially dealing with time stamped data and knowledge acquisition Features Introduces recent applications of new computational intelligence technologies focusing on medical diagnosis issues Reviews multidisciplinary research in health care like data mining medical imaging pattern recognition and so forth Explores intelligent systems and applications of learning in health care challenges along with the representation and reasoning of clinical uncertainty Addresses problems resulting from automated data collection in modern hospitals with possible solutions to support medical decision making systems Discusses current and emerging intelligent systems with respect to evolutionary computation and its applications in the medical domain This book is aimed at researchers professionals and graduate students in computational intelligence signal processing imaging artificial intelligence and data analytics

Computational Intelligence and Healthcare Informatics Om Prakash Jena, Alok Ranjan Tripathy, Ahmed A. Elngar, Zdzislaw Polkowski, 2021-10-19

COMPUTATIONAL INTELLIGENCE and HEALTHCARE INFORMATICS The book provides the state of the art innovation research design and implements methodological and algorithmic solutions to data processing problems designing and analysing evolving trends in health informatics intelligent disease prediction and computer aided diagnosis Computational intelligence CI refers to the ability of computers to accomplish tasks that are normally completed by intelligent beings such as humans and animals With the rapid advance of technology artificial intelligence AI techniques are being effectively used in the fields of health to improve the efficiency of treatments avoid the risk of false diagnoses make therapeutic decisions and predict the outcome in many clinical scenarios Modern health treatments are faced with the challenge of acquiring analyzing and applying the large amount of knowledge necessary to solve complex problems Computational intelligence in healthcare mainly uses computer techniques to perform clinical diagnoses and suggest treatments In the present scenario of computing CI tools present adaptive mechanisms that permit the understanding of data in difficult and changing environments The desired results of CI technologies profit medical fields by assembling patients with the same types of diseases or fitness problems so that healthcare facilities can provide effectual treatments This book starts with the fundamentals of computer intelligence and the techniques and procedures associated with it Contained in this book are state of the art methods of computational

intelligence and other allied techniques used in the healthcare system as well as advances in different CI methods that will confront the problem of effective data analysis and storage faced by healthcare institutions. The objective of this book is to provide researchers with a platform encompassing state of the art innovations research and design implementation of methodological and algorithmic solutions to data processing problems and the design and analysis of evolving trends in health informatics intelligent disease prediction and computer aided diagnosis. Audience The book is of interest to artificial intelligence and biomedical scientists researchers engineers and students in various settings such as pharmaceutical biotechnology companies virtual assistants developing companies medical imaging diagnostics centers wearable device designers healthcare assistance robot manufacturers precision medicine testers hospital management and researchers working in healthcare system

Applying Computational Intelligence Arthur Kordon, 2009-11-28 In theory there is no difference between theory and practice. But in practice there is. Jan L A van de Snepscheut. The flow of academic ideas in the area of computational intelligence has penetrated industry with tremendous speed and persistence. Thousands of applications have proved the practical potential of fuzzy logic neural networks evolutionary computation swarm intelligence and intelligent agents even before their theoretical foundation is completely understood. And the popularity is rising. Some software vendors have pronounced the new machine learning gold rush. To Transfer Data into Gold. New buzzwords like data mining genetic algorithms and swarm optimization have enriched the top executives vocabulary to make them look more visionary for the 21st century. The phrase fuzzy math became political jargon after being used by US President George W Bush in one of the election debates in the campaign in 2000. Even process operators are discussing the performance of neural networks with the same passion as the performance of the Dallas Cowboys. However for most of the engineers and scientists introducing computational intelligence technologies into practice looking at the growing number of new approaches and understanding their theoretical principles and potential for value creation becomes a more and more difficult task

Computational Intelligence in Healthcare Informatics D. P. Acharjya, Kun Ma, 2024-02-21 The book presents advancements in computational intelligence in perception with healthcare applications. Besides the concepts theory and applications in various domains of healthcare systems including decision making in healthcare management disease diagnosis and electronic health records will be presented in a lucid manner. To achieve these objectives both theoretical advances and its applications to healthcare problems will be stressed upon. This has been done to make the edited book more flexible and to stimulate further research interest in topics. The book is divided into four sections such as theoretical foundation of computational intelligence techniques computational intelligence in analyzing health data computational intelligence in electronic health record EHR and computational intelligence in ethical issues in health care

Computational Intelligence Paradigms Mika Sato-Ilic, Maria Virvou, George A Tsihrintzis, Valentina Emilia Balas, Canicious Abeynayake, 2008-06-17 System designers are faced with a large set of data which has to be analysed and processed efficiently. Advanced computational intelligence paradigms present

tremendous advantages by offering capabilities such as learning generalisation and robustness These capabilities help in designing complex systems which are intelligent and robust The book includes a sample of research on the innovative applications of advanced computational intelligence paradigms The characteristics of computational intelligence paradigms such as learning generalization based on learned knowledge knowledge extraction from imprecise and incomplete data are the extremely important for the implementation of intelligent machines The chapters include architectures of computational intelligence paradigms knowledge discovery pattern classification clusters support vector machines and gene linkage analysis We believe that the research on computational intelligence will simulate great interest among designers and researchers of complex systems It is important to use the fusion of various constituents of computational intelligence to offset the demerits of one paradigm by the merits of another

Advanced Computational Intelligence Paradigms in Healthcare - 3 Margarita Sordo,Sachin Vaidya,2008-06-26 This volume details the latest state of the art research on computational intelligence paradigms in healthcare in the intelligent agent environment The book presents seven chapters selected from the rapidly growing application areas of computational intelligence to healthcare systems These include intelligent synthetic characters man machine interface menu generators analysis of user acceptance pictures archiving and communication systems

Computational Intelligence in Medical Imaging G. Schaefer,A. Hassanien,J. Jiang,2009-03-24 CI Techniques Algorithms for a Variety of Medical Imaging SituationsDocuments recent advances and stimulates further researchA compilation of the latest trends in the field Computational Intelligence in Medical Imaging Techniques and Applications explores how intelligent computing can bring enormous benefit to existing technology in medical

Advanced Computational Intelligence Methods for Processing Brain Imaging Data Kaijian Xia,Yizhang Jiang,Yu-Dong Zhang,Mohammad Khosravi,Yuanpeng Zhang,2022-11-09 *Recent Advances in Intelligent Paradigms and Applications* Ajith Abraham,2013-03-20 Digital systems that bring together the computing capacity for processing large bodies of information with the human cognitive capability are called intelligent systems Building these systems has become one of the great goals of modern technology This goal has both intellectual and economic incentives The need for such intelligent systems has become more intense in the face of the global connectivity of the internet There has become an almost insatiable requirement for instantaneous information and decision brought about by this confluence of computing and communication This requirement can only be satisfied by the construction of innovative intelligent systems A second and perhaps an even more significant development is the great advances being made in genetics and related areas of biotechnology Future developments in biotechnology may open the possibility for the development of a true human silicon interaction at the micro level neural and cellular bringing about a need for intelligent systems What is needed to further the development of intelligent systems are tools to enable the representation of human cognition in a manner that allows formal manipulation The idea of developing such an algebra goes back to Leibniz in the 17th century with his dream of a calculus

rationator It wasn't until two hundred years later beginning with the work of Boole Cantor and Frege that a formal mathematical logic for modeling human reasoning was developed The introduction of the modern digital computer during the Second World War by von Neumann and others was a culmination of this intellectual trend

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