

Margaret Lech
Insu Song
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Joachim Diederich (Eds.)

Mental Health Informatics



Springer

Mental Health Informatics Studies In Computational Intelligence

Fadi Al-Turjman, Anand Nayyar



Mental Health Informatics Studies In Computational Intelligence:

Mental Health Informatics Margaret Lech, Insu Song, Peter Yellowlees, Joachim Diederich, 2013-11-19 This book introduces approaches that have the potential to transform the daily practice of psychiatrists and psychologists. This includes the asynchronous communication between mental health care providers and clients as well as the automation of assessment and therapy. Speech and language are particularly interesting from the viewpoint of psychological assessment. For instance, depression may change the characteristics of voice in individuals and these changes can be detected by a special form of speech analysis. Computational screening methods that utilize speech and language can detect subtle changes and alert clinicians as well as individuals and caregivers. The use of online technologies in mental health however poses ethical problems that will occupy concerned individuals, governments and the wider public for some time. Assuming that these ethical problems can be solved, it should be possible to diagnose and treat mental health disorders online excluding the use of medication. Speech and language are particularly interesting from the viewpoint of psychological assessment. For instance, depression may change the characteristics of voice in individuals and these changes can be detected by a special form of speech analysis. Computational screening methods that utilize speech and language can detect subtle changes and alert clinicians as well as individuals and caregivers. The use of online technologies in mental health however poses ethical problems that will occupy concerned individuals, governments and the wider public for some time. Assuming that these ethical problems can be solved, it should be possible to diagnose and treat mental health disorders online excluding the use of medication.

Integrating Technology into 21st Century Psychiatry James. H Shore, 2019-11-06 This issue of *Psychiatric Clinics* guest edited by Dr Jay Shore will explore the topic of Integrating Technology into 21st Century Psychiatry including discussion of telemedicine, social media and other technologies. This issue is one of four issues each year selected by our series Consulting Editor Dr Harsh Trivedi. Topics covered in this volume will include Review and implementation of self help and automated tools in mental health care; Managing establishment of patient provider relationship across modalities and regulatory environments; Establishing Telemental Health Services from conceptualization to powering up; Assessing cognition outside of the clinic; Clinical lesson from virtual house calls in mental health; Patient portals and electronic health record based capture of patient reported outcomes in mental health settings; A history and review of interactive computerized mental health programs; Child and Adolescent Telepsychiatry; Education and Training; Intended and Unintended Consequence in the Digital Age of Psychiatry; Recommendations for utilizing Clinical Video Teleconferencing CVT with patients at high risk for suicide among other topics.

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

Emerging Technologies for Emerging Markets John Vong, Insu Song, 2014-12-27 This book introduces inclusive cost effective ICE approaches that have the potential to transform all aspects of daily lives of people at the base of the pyramid in the economic scale who represent more than 75% of the world population ICE means that the approaches must meet the affordability level at the base of the pyramid This includes mobile banking and financial service technologies mobile education rural information and communication technologies telemedicine e Health and health social networks This monograph is a compulsory reading for not only technology innovators but also economists social entrepreneurs development specialists health specialists bankers and researchers and policy thinkers on technology and economic development

Smart Computational Intelligence in Biomedical and Health Informatics Amit Kumar Manocha, Mandeep Singh, Shruti Jain, Vishal Jain, 2021-09-27 Smart Computational Intelligence in Biomedical and Health Informatics presents state of the art innovations research design and implementation of methodological and algorithmic solutions to data processing problems including analysis of evolving trends in health informatics and computer aided diagnosis This book describes practical applications led research regarding the use of methods and devices in clinical diagnosis disease prevention and patient monitoring and management It also covers simulation and modeling measurement and control analysis information extraction and monitoring of physiological data in clinical medicine and the biological sciences FEATURES Covers evolutionary approaches to solve optimization problems in biomedical engineering Discusses IoT Cloud computing and data analytics in healthcare informatics Provides computational intelligence based solution for diagnosis of diseases Reviews modelling and simulations in designing of biomedical equipment Promotes machine learning based approaches to improvements in biomedical engineering problems This book is for researchers graduate students in healthcare biomedical engineers and those interested in health informatics computational intelligence and machine learning

Next Generation Healthcare Informatics B. K. Tripathy, Pawan Lingras, Arpan Kumar Kar, Chiranjil Lal Chowdhary, 2022-06-06 This edited book provides information on emerging fields of next generation healthcare informatics with a special emphasis on emerging developments and applications of artificial intelligence deep learning techniques computational intelligence methods Internet of medical things IoMT optimization techniques decision making nanomedicine and cloud computing The book provides a conceptual framework and roadmap for decision makers for this transformation The chapters involved in this book cover challenges and opportunities for diabetic retinopathy detection based on deep learning applications deep learning accelerators in IoT and IoMT health data analysis deep reinforcement based

conversational AI agent in healthcare systems examination of health data performance multisource data in intelligent medicine application of genetic algorithms in health care mental disorder digital healthcare system with big data analytics encryption methods in healthcare data security computation and cognitive bias in healthcare intelligence and pharmacogenomics guided imagery therapy cancer detection and prediction techniques medical image processing for coronavirus and imbalance learning in health care Brain Informatics Shouyi Wang,Vicky Yamamoto,Jianzhong Su,Yang Yang,Erick Jones,Leon Iasemidis,Tom Mitchell,2018-12-06 This book constitutes the refereed proceedings of the International Conference on Brain Informatics BI 2018 held in Arlington TX USA in December 2018 The 46 revised full papers were carefully reviewed and selected from 53 submissions The papers are grouped thematically on cognitive and computational foundations of brain science human information processing systems brain big data analysis curation and management informatics paradigms for brain and mental health research brain machine intelligence and brain inspired computing *Computational Intelligence for Machine Learning and Healthcare Informatics* Rajshree Srivastava,Pradeep Kumar Mallick,Siddharth Swarup Rautaray,Manjusha Pandey,2020-06-22 This book presents a variety of techniques designed to enhance and empower multi disciplinary and multi institutional machine learning research in healthcare informatics It is intended to provide a unique compendium of current and emerging machine learning paradigms for healthcare informatics reflecting the diversity complexity and depth and breadth of this multi disciplinary area **Applications of Computational Intelligence in Biomedical Technology** Radim Bris,Jaroslav Majernik,Krzysztof Pancierz,Elena Zaitseva,2015-06-25 This book presents latest results and selected applications of Computational Intelligence in Biomedical Technologies Most of contributions deal with problems of Biomedical and Medical Informatics ranging from theoretical considerations to practical applications Various aspects of development methods and algorithms in Biomedical and Medical Informatics as well as Algorithms for medical image processing modeling methods are discussed Individual contributions also cover medical decision making support estimation of risks of treatments reliability of medical systems problems of practical clinical applications and many other topics This book is intended for scientists interested in problems of Biomedical Technologies for researchers and academic staff for all dealing with Biomedical and Medical Informatics as well as PhD students Useful information is offered also to IT companies developers of equipment and or software for medicine and medical professionals Applied AI and Computational Intelligence in Diagnostics and Decision-Making Ather, Danish,Mun, Ng Khai,Jain, Sachin,Jain, Vishal,Kukreja, Vinay,2025-09-18 The integration of reinforcement learning techniques like Deep Q Networks DQNs with computational intelligence is revolutionizing healthcare by enabling more accurate timely and personalized medical decision making These AI strategies enhance diagnostics treatment planning and patient monitoring by leveraging real time data from sources such as IoT devices and medical imaging This shift not only improves patient outcomes but also supports more efficient use of healthcare resources As AI becomes more embedded in clinical practice it plays a critical role

in transforming healthcare into a more data driven adaptive and patient centered system Applied AI and Computational Intelligence in Diagnostics and Decision Making explores the fusion of reinforcement learning particularly DQNs with computational intelligence to enhance decision making in healthcare It delves into AI driven diagnostics personalized treatment plans and real time monitoring leveraging deep learning and IoT integration Covering topics such as artificial intelligence neural networks and remote patient monitoring this book is an excellent resource for AI researchers data scientists machine learning engineers computational intelligence specialists medical professionals radiologists clinicians and more Artificial Intelligence in Healthcare Tianhua Chen,Jenny Carter,Mufti Mahmud,Arjab Singh Khuman,2022-10-25

Recent advances in artificial intelligence AI and machine learning have witnessed many successes in various disciplines including the healthcare sector Innovations in intelligent medical systems have revolutionized the way in which healthcare services are provided ranging from making clinical diagnosis developing personalized treatment and drugs assisting patient monitoring to automating administrative tasks and reducing operational costs In this book the authors present key applications in the general area of health care where AI has made significant successes From the individual chapters the readers will be provided with a range of examples to illustrate the wide plethora of application domains utilizing state of the art AI techniques proving credence to the versatility and effectiveness of an AI approach in health care and medicine We envisage that this book is ideal for individuals new to the notion of AI in health care equally early career academics who wish to further expand on their knowledge in AI in medicine What will be presented is in no means an exhaustive list of applications but most definitely a varied one **Computational Intelligence for Oncology and Neurological Disorders**

Mrutyunjaya Panda,Ajith Abraham,Biju Gopi,Reuel Ajith,2024-07-15 With the advent of computational intelligence based approaches such as bio inspired techniques and the availability of clinical data from various complex experiments medical consultants researchers neurologists and oncologists there is huge scope for CI based applications in medical oncology and neurological disorders This book focuses on interdisciplinary research in this field bringing together medical practitioners dealing with neurological disorders and medical oncology along with CI investigators The book collects high quality original contributions containing the latest developments or applications of practical use and value presenting interdisciplinary research and review articles in the field of intelligent systems for computational oncology and neurological disorders Drawing from work across computer science physics mathematics medical science psychology cognitive science oncology and neurobiology among others it combines theoretical applied computational experimental and clinical research It will be of great interest to any neurology or oncology researchers focused on computational approaches **Handbook of Research**

on Network-Enabled IoT Applications for Smart City Services Reddy, K. Hemant Kumar,Roy, Diptendu Sinha,Mishra, Tapas Kumar,Hussain, Mir Wajahat,2023-09-26 The rapid growth of IoT and its applications in smart cities pose significant challenges for academic scholars The increasing number of interconnected devices and the massive amounts of data they

generate strain traditional networks leading to inefficiencies and security vulnerabilities. Additionally, the centralized control plane in Software Defined Networks (SDN) presents a single point of failure hindering network performance, while IoT devices themselves are susceptible to attacks compromising user data and privacy. To address these pressing issues, Network Enabled IoT Applications for Smart City Services offers a compelling solution. Edited by Dr K Hemant Kumar Reddy, Dr Diptendu Sinha Roy, and Tapas Mishra, this book advocates leveraging SDN to handle high frequency data streams effectively. It also proposes the integration of blockchain technology to enhance security and reliability in IoT applications, offering a roadmap for scholars to improve network efficiency, security, and reliability in IoT and smart city domains. With their extensive expertise, the authors provide academic scholars with a comprehensive and innovative resource that inspires further research and development in this evolving field, enabling them to make significant contributions to the advancement of IoT and smart city technologies.

Evolution in Computational Intelligence Vikrant Bhateja, Xin-She Yang, Marta Campos Ferreira, Sandeep Singh Sengar, Carlos M. Travieso-Gonzalez, 2023-11-20. The book presents the proceedings of the 11th International Conference on Frontiers of Intelligent Computing Theory and Applications (FICTA 2023) held at Cardiff School of Technologies, Cardiff Metropolitan University, Cardiff, Wales, UK, during April 11-12, 2023. Researchers, scientists, engineers, and practitioners exchange new ideas and experiences in the domain of intelligent computing theories with prospective applications in various engineering disciplines in the book. This book is divided into two volumes. It covers broad areas of information and decision sciences with papers exploring both the theoretical and practical aspects of data intensive computing, data mining, evolutionary computation, knowledge management, and networks, sensor networks, signal processing, wireless networks, protocols, and architectures. This book is a valuable resource for postgraduate students in various engineering disciplines.

Soft Computing in Industry 5.0 for Sustainability C Kishor Kumar Reddy, Thandiwe Sithole, Mariya Ouaisa, Özen ÖZER, Marlia M. Hanafiah, 2024-11-15. Soft computing and Industry 5.0 are two distinct concepts that when combined can have a significant impact on sustainability initiatives within various industries. Soft computing is a subfield of artificial intelligence (AI) that aims to address problems characterized by uncertainty, imprecision, and partial truth. It encompasses various computational techniques such as fuzzy logic, neural networks, genetic algorithms, and machine learning, which enable machines to deal with complex and uncertain data in a more human-like manner. Soft computing techniques are particularly valuable in sustainability efforts because they can handle non-linear relationships and uncertain data that often arise in environmental and social contexts. For example, they can be used to optimize energy consumption, waste management, and resource allocation in industries by considering various factors and trade-offs. The book highlights the latest innovations in intelligent systems, including classical machine learning, deep learning, Internet of Things (IoT), Industrial Internet of Things (IIoT), blockchain, knowledge representation, knowledge management, big data, and natural language processing (NLP). The book contains many contemporary articles from both scientists and practitioners working in many fields where soft computing

intelligent systems and the IIoT can break new ground Intelligent systems and the Internet of Things are now essential technologies in almost every field From agriculture to industry to healthcare the scope of smart systems and IIoT is as wide as the horizon Nowadays these technologies are extensively used in developed countries but they are still at an early stage in emerging countries The primary market of this book is senior undergraduate students post graduate students practitioners researchers academicians industrialists and professionals working in areas of core computer science electrical engineering mechanical engineering environmental engineering and agricultural engineering The secondary audience of this book is individuals working in the areas of manufacturing agriculture remote sensing environmental engineering health care smart cities smart farming remote sensing supply chain management and hydrology

Machine Learning for Critical Internet of Medical Things Fadi Al-Turjman, Anand Nayyar, 2022-02-03 This book discusses the applications challenges and future trends of machine learning in medical domain including both basic and advanced topics The book presents how machine learning is helpful in smooth conduction of administrative processes in hospitals in treating infectious diseases and in personalized medical treatments The authors show how machine learning can also help make fast and more accurate disease diagnoses easily identify patients help in new types of therapies or treatments model small molecule drugs in pharmaceutical sector and help with innovations via integrated technologies such as artificial intelligence as well as deep learning The authors show how machine learning also improves the physician s and doctor s medical capabilities to better diagnosis their patients This book illustrates advanced innovative techniques frameworks concepts and methodologies of machine learning that will enhance the efficiency and effectiveness of the healthcare system Provides researchers in machine and deep learning with a conceptual understanding of various methodologies of implementing the technologies in medical areas Discusses the role machine learning and IoT play into locating different virus and diseases across the globe such as COVID 19 Ebola and cervical cancer Includes fundamentals and advances in machine learning in the medical field supported by significant case studies and practical applications

Computer Intelligence Against Pandemics Siddhartha Bhattacharyya, Jyoti Sekhar Banerjee, Sergey Gorbachev, Khan Muhammad, Mario Koeppen, 2023-08-07 This book introduces the most recent research and innovative developments regarding the new strains of COVID 19 While medical and natural sciences have been working instantly on deriving solutions and trying to protect humankind against such virus types there is also a great focus on technological developments for improving the mechanism momentum of science for effective and efficient solutions At this point computational intelligence is the most powerful tools for researchers to fight against COVID 19 Thanks to instant data analyze and predictive techniques by computational intelligence it is possible to get positive results and introduce revolutionary solutions against related medical diseases By running capabilities resources for rising the computational intelligence technological fields like Artificial Intelligence with Machine Deep Learning Data Mining Applied Mathematics are essential components for processing data recognizing patterns modelling new techniques and improving the

advantages of the computational intelligence more Nowadays there is a great interest in the application potentials of computational intelligence to be an effective approach for taking humankind more step away after COVID 19 and before pandemics similar to the COVID 19 many appear

Proceedings of International Conference on Computational Intelligence Ritu Tiwari,Mukesh Saraswat,Mario Pavone,2024-07-17 The book presents high quality research papers presented at International Conference on Computational Intelligence ICCI 2023 held at Sardar Vallabhbhai National Institute of Technology Surat India during 4 5 November 2023 The topics covered are artificial intelligence neural network deep learning techniques fuzzy theory and systems rough sets self organizing maps machine learning chaotic systems multi agent systems computational optimization ensemble classifiers reinforcement learning decision trees support vector machines hybrid learning statistical learning metaheuristics algorithms machine vision Internet of Things image processing image segmentation data clustering sentiment analysis big data computer networks signal processing supply chain management web and text mining distributed systems bioinformatics embedded systems expert system forecasting pattern recognition planning and scheduling time series analysis human computer interaction web mining natural language processing multimedia systems and quantum computing

Artificial Intelligence and Information Technologies Arvind Dagur,Dhirendra Kumar Shukla,Nazarov Fayzullo Makhmadiyarovich,Akhatov Akmal Rustamovich,Jabborov Jamol Sindorovich,2024-07-31 This book contains the proceedings of a non profit conference with the objective of providing a platform for academicians researchers scholars and students from various institutions universities and industries in India and abroad and exchanging their research and innovative ideas in the field of Artificial Intelligence and Information Technologies It begins with exploring the research and innovation in the field of Artificial Intelligence and Information Technologies including secure transaction monitoring real time assistance and security for advanced stage learners researchers and academicians has been presented It goes on to cover Broad knowledge and research trends about artificial intelligence and Information Technologies and their role in today s digital era Depiction of system model and architecture for clear picture of AI in real life Discussion on the role of Artificial Intelligence in various real life problems such as banking healthcare navigation communication security etc Explanation of the challenges and opportunities in AI based Healthcare education banking and related Industries Recent Information technologies and challenges in this new epoch This book will be beneficial to researchers academicians undergraduate students postgraduate students research scholars professionals technologists and entrepreneurs

Early Detection of Mental Health Disorders by Social Media Monitoring Fabio Crestani,David E. Losada,Javier Parapar,2022-09-14 eRisk stands for Early Risk Prediction on the Internet It is concerned with the exploration of techniques for the early detection of mental health disorders which manifest in the way people write and communicate on the internet in particular in user generated content e g Facebook Twitter or other social media Early detection technologies can be employed in several different areas but particularly in those related to health and safety For instance early alerts

could be sent when the writing of a teenager starts showing increasing signs of depression or when a social media user starts showing suicidal inclinations or again when a potential offender starts publishing antisocial threats on a blog forum or social network eRisk has been the pioneer of a new interdisciplinary area of research that is potentially applicable to a wide variety of situations problems and personal profiles This book presents the best results of the first five years of the eRisk project which started in 2017 and developed into one of the most successful track of CLEF the Conference and Lab of the Evaluation Forum

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