H.-P. Schwefel · I. Wegener · K. Weinert (Eds.)

Advances in Computational Intelligence

Theory and Practice

Springer

Advances In Computational Intelligence Theory And Practice

Yijin Wang

Advances In Computational Intelligence Theory And Practice:

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diagnostics decision support classification optimisation and many more This book tries to show the impact and feedback between theory and applications of Computational Intelligence highlighted on selected examples **Advances in Computational Intelligence** Fei-Yue Wang,Derong Liu,2006 Computational Intelligence CI is a recently emerging area in fundamental and applied research exploiting a number of advanced information processing technologies that mainly embody neural networks fuzzy logic and evolutionary computation With a major concern to exploiting the tolerance for imperfection uncertainty and partial truth to achieve tractability robustness and low solution cost it becomes evident that composing methods of CI should be working concurrently rather than separately It is this conviction that research on the synergism of CI paradigms has experienced significant growth in the last decade with some areas nearing maturity while many others remaining unresolved This book systematically summarizes the latest findings and sheds light on the respective fields that might lead to future breakthroughs Computational Intelligence: A Compendium John Fulcher,L. C. Jain,2008-06-16 Computational Intelligence A Compendium presents a well structured overview about this rapidly growing field with contributions of leading experts in Computational Intelligence The main focus of the compendium is on applied methods tired and proven effective to realworld problems which is especially useful for practitioners researchers students and also newcomers to the field The 25 chapters are grouped into the following themes I Overview and Background II Data Preprocessing and Systems Integration III Artificial Intelligence IV Logic and Reasoning V Ontology VI Agents VII Fuzzy Systems VIII Artificial Neural Networks IX Evolutionary Approaches X DNA and Immune based Computing

COMPUTATIONAL INTELLIGENCE IN COMPLEX DECISION MAKING SYSTEMS Ruan Da,2010-06-01 In recent years there has been a growing interest in the need for designing intelligent systems to address complex decision systems One of the most challenging issues for the intelligent system is to effectively handle real world uncertainties that cannot be eliminated These uncertainties include various types of information that are incomplete imprecise fragmentary not fully reliable vague contradictory deficient and overloading The uncertainties result in a lack of the full and precise knowledge of the decision system including the determining and selection of evaluation criteria alternatives weights assignment scores and the final integrated decision result Computational intelligent techniques including fuzzy logic neural networks and genetic algorithms etc which are complimentary to the existing traditional techniques have shown great potential to solve these demanding real world decision problems that exist in uncertain and unpredictable environments These technologies have formed the foundation for intelligent systems **Advanced Computational Intelligence Paradigms in Healthcare - 3** Margarita Sordo,Sachin Vaidya,2008-08-20 Advanced Computational Intelligence CI paradigms are increasingly used for implementing robust computer applications to foster safety quality and efficacy in all aspects of healthcare This research book covers an ample spectrum of the most advanced applications of CI in healthcare The first chapter introduces the reader to the field of computational intelligence and its applications in healthcare In the following chapters readers will gain an

understanding of effective CI methodologies in several important topics including clinical decision support decision making in medicine effectiveness cognitive categorizing in medical information system as well as intelligent pervasive healthcare systems and agent middleware for ubiquitous computing Two chapters are devoted to imaging applications detection and classification of microcalcifications in mammograms using evolutionary neural networks and Bayesian methods for segmentation of medical images The final chapters cover key aspects of healthcare including computational intelligence in music processing for blind people and ethical healthcare agents This book will be of interest to postgraduate students professors and practitioners in the areas of intelligent systems and healthcare   Mathematical Reviews ,2004   **Aspects of Computational Intelligence: Theory and Applications** Ladislav Madarász,Jozef Živčák,2012-08-11 This volume covers the state of the art of the research and development in various aspects of computational intelligence and gives some perspective directions of development Except the traditional engineering areas that contain theoretical knowledge applications designs and projects the book includes the area of use of computational intelligence in biomedical engineering Aspects of Computational Intelligence Theory and Applications is a compilation of carefully selected extended papers written on the basis of original contributions presented at the 15th IEEE International Conference on Intelligence Engineering Systems 2011 INES 2011 held at June 23 26 2011 in AquaCity Poprad Slovakia   **Advanced Computational Intelligence Methods for Processing Brain Imaging Data** Kaijian Xia,Yizhang Jiang,Yu-Dong Zhang,Mohammad Khosravi,Yuanpeng Zhang,2022-11-09   Proceedings of the ... Congress on Evolutionary Computation ,2004   Healthcare Analytics and Advanced Computational Intelligence Sushruta Mishra,Meshal Alharbi,Hrudaya Kumar Tripathy,Biswajit Sahoo,Ahmed Alkhayyat,2024-07-31 This book aims to apply state of the art advanced computational intelligence frameworks in healthcare It presents recent and real life applications of computationally intelligent healthcare It also discusses problems and solutions to remote healthcare and emergency healthcare services Healthcare Analytics and Advanced Computational Intelligence highlights modern ambient intelligence enabled healthcare models along with advanced topics like quantum computing in healthcare and cryptomedical systems Healthcare Analytics and Advanced Computational Intelligence examines designing the latest medical systems and models that will allow the societal acceptance of ambiance computing in healthcare medical imaging health analytics machine intelligence sensory computing medical data analytics disease detection telemedicine and their applications It includes diverse case studies dealing with various clinical based applications These intelligent models are primarily structured to deal with complex real world issues in clinical data analytics by means of state of the art techniques with general implementation domain specific solutions or hybrid methods which integrate computational intelligence with conventional statistical methods The book is written for researchers and academicians in diverse areas Engineers from technical disciplines such as computer engineering are likely to purchase the book Various sub streams such as machine learning big data analytics healthcare analytics and computational intelligence will find the book significant for

their curriculum   *Advanced Computational Intelligence Paradigms in Healthcare - 2* S. Vaidya,Hiroyuki Yoshida,2007-06-07 Computational intelligence paradigms offer many advantages in maintaining and enhancing the field of healthcare This volume presents seven chapters selected from the rapidly growing application areas of computational intelligence to healthcare systems including intelligent synthetic characters man machine interface menu generators analysis of user acceptance pictures archiving and communication systems This book will serve as a useful resource for the health professionals professors students and the computer scientists who are working on or interested in learning healthcare systems to overview the current state of the art of diverse applications of computational intelligence to healthcare practice

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