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Modeling of Tropospheric Delays Using ANFIS Wayan Suparta,Kemal Maulana Alhasa,2015-12-22 This book investigates tropospheric delays one of the main error sources in Global Navigation Satellite Systems GNSS and its impact plays a crucial role in near real time weather forecasting Accessibility and accurate estimation of this parameter are essential for weather and climate research Advances in GNSS application has allowed the measurements of Zenith Tropospheric Delay ZTD in all weather conditions and on a global scale with fine temporal and spatial resolution However GPS data are not always available for a full 24 hour period Using a soft computing technique such as Adaptive Neuro Fuzzy Inference System ANFIS as a new alternative the ZTD can be determined by using the surface meteorological data as inputs The estimation and prediction of ZTD value are presented in this book Advances in Neural Networks - ISSN 2007 Derong Liu,2007 Annotation The three volume set LNCS 4491 4492 4493 constitutes the refereed proceedings of the 4th International Symposium on Neural Networks ISSN 2007 held in Nanjing China in June 2007 The 262 revised long papers and 192 revised short papers presented were carefully reviewed and selected from a total of 1 975 submissions The papers are organized in topical sections on neural fuzzy control neural networks for control applications adaptive dynamic programming and reinforcement learning neural networks for nonlinear systems modeling robotics stability analysis of neural networks learning and approximation data mining and feature extraction chaos and synchronization neural fuzzy systems training and learning algorithms for neural networks neural network structures neural networks for pattern recognition SOMs ICA PCA biomedical applications feedforward neural networks recurrent neural networks neural networks for optimization support vector machines fault diagnosis detection communications and signal processing image video processing and applications of neural networks Intelligent Systems and Applications Yaxin Bi,Rahul Bhatia,Supriya Kapoor,2019-08-23 The book presents a remarkable collection of chapters covering a wide range of topics in the areas of intelligent systems and artificial intelligence and their real world applications It gathers the proceedings of the Intelligent Systems Conference 2019 which attracted a total of 546 submissions from pioneering researchers scientists industrial engineers and students from all around the world These submissions underwent a double blind peer review process after which 190 were selected for inclusion in these proceedings As intelligent systems continue to replace and sometimes outperform human intelligence in decision making processes they have made it possible to tackle a host of problems more effectively This branching out of computational intelligence in several directions and use of intelligent systems in everyday applications have created the need for an international conference as a venue for reporting on the latest innovations and trends This book collects both theory and application based chapters on virtually all aspects of artificial intelligence presenting state of the art intelligent methods and techniques for solving real world problems along with a vision for future research it represents a unique and valuable asset Flood Forecasting and Hydraulic Structures Manish Pandey,N. V. Umamahesh,Z. Ahmad,Manousos

Valyrakis,2025-01-21 This book presents the select proceedings of the 28th International Conference on Hydraulics Water Resources River and Coastal Engineering HYDRO 2023 focusing on broad spectrum of emerging opportunities and challenges in the field of flood forecasting and hydraulic structures It covers a range of topics including early warning system urban flood modelling and management dam hazard classification river training and protection works and structural and non structural measures for flood mitigation assessment and development of flood vulnerability The book also presents latest developments in topics such as hazard and risk maps rehabilitation of old dams streamflow turbines canal operation and related structure and operation and management of dams including their instrumentation Presenting recent advances in the form of illustrations tables and text it offers readers insights for their own research In addition the book addresses fundamental concepts and studies in the field of flood forecasting and hydraulic structures making it a valuable resource for both beginners and researchers wanting to further their understanding of hydraulics water resources and coastal engineering

Computational Intelligence Kurosh Madani,António Dourado Correia,Agostinho Rosa,Joaquim

Filipe,2011-04-05 The present book includes a set of selected extended papers from the first International Joint Conference on Computational Intelligence IJCCI 2009 held in Madeira Portugal from 5 to 7 October 2009 The conference was composed by three co located conferences The International Conference on Fuzzy Computation ICFC the International Conference on Evolutionary Computation ICEC and the International Conference on Neural Computation ICNC Recent progresses in scientific developments and applications in these three areas are reported in this book IJCCI received 231 submissions from 35 countries in all continents After a double blind paper review performed by the Program Committee only 21 submissions were accepted as full papers and thus selected for oral presentation leading to a full paper acceptance ratio of 9% Additional papers were accepted as short papers and posters A further selection was made after the Conference based also on the assessment of presentation quality and audience interest so that this book includes the extended and revised versions of the very best papers of IJCCI 2009 Commitment to high quality standards is a major concern of IJCCI that will be maintained in the next editions considering not only the stringent paper acceptance ratios but also the quality of the program committee keynote lectures participation level and logistics

Advanced Systems for Biomedical Applications Olfa Kanoun,Nabil

Derbel,2021-07-19 The book highlights recent developments in the field of biomedical systems covering a wide range of technological aspects methods systems and instrumentation techniques for diagnosis monitoring treatment and assistance Biomedical systems are becoming increasingly important in medicine and in special areas of application such as supporting people with disabilities and under pandemic conditions They provide a solid basis for supporting people and improving their health care As such the book offers a key reference guide about novel medical systems for students engineers designers and technicians

Proceedings of the International Field Exploration and Development Conference 2022 Jia'en Lin,2023-08-05

This book focuses on reservoir surveillance and management reservoir evaluation and dynamic description reservoir

production stimulation and EOR ultra tight reservoir unconventional oil and gas resources technology oil and gas well production testing and geomechanics This book is a compilation of selected papers from the 12th International Field Exploration and Development Conference IFEDC 2022 The conference not only provides a platform to exchanges experience but also promotes the development of scientific research in oil gas exploration and production The main audience for the work includes reservoir engineer geological engineer enterprise managers senior engineers as well as professional students

Adaptive Filtering Applications Lino Garcia Morales,2011-07-05 Adaptive filtering is useful in any application where the signals or the modeled system vary over time The configuration of the system and in particular the position where the adaptive processor is placed generate different areas or application fields such as prediction system identification and modeling equalization cancellation of interference etc which are very important in many disciplines such as control systems communications signal processing acoustics voice sound and image etc The book consists of noise and echo cancellation medical applications communications systems and others hardly joined by their heterogeneity Each application is a case study with rigor that shows weakness strength of the method used assesses its suitability and suggests new forms and areas of use The problems are becoming increasingly complex and applications must be adapted to solve them The adaptive filters have proven to be useful in these environments of multiple input output variant time behaviors and long and complex transfer functions effectively but fundamentally they still have to evolve This book is a demonstration of this and a small illustration of everything that is to come

Neural Computing for Advanced Applications Haijun Zhang,Xianxian Li,Tianyong Hao,Weizhi Meng,Zhou Wu,Qian He,2024-09-21 This book constitutes the refereed proceedings of the 5th International Conference on Neural Computing for Advanced Applications NCAA 2024 held in Guilin China during July 5 7 2024 The 89 revised full papers presented in these proceedings were carefully reviewed and selected from 227 submissions The papers are organized in the following topical sections Part I Neural network NN theory NN based control systems neuro system integration and engineering applications Computer vision and their engineering applications Part II Computational intelligence nature inspired optimizers their engineering applications and benchmarks Part III Natural language processing knowledge graphs recommender systems multimodal Deep Learning and their applications Fault diagnosis and forecasting prognostic management Time series analysis and cyber physical system security

Artificial Intelligence Science And Technology - Proceedings Of The 2016 International Conference (Aist2016) Hui Yang,2017-06-28 The 2016 International Conference on Artificial Intelligence Science and Technology AIST2016 was held in Shanghai China from 15th to 17th July 2016 AIST2016 aims to bring together researchers engineers and students to the areas of Artificial Intelligence Science and Technology AIST2016 features unique mixed topics of artificial intelligence and application computer and software communication and network information and security data mining and optimization This volume consists of 101 peer reviewed articles by local and foreign eminent scholars which cover the frontiers and state of art development in AI

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