Flood Forecasting Using Artificial Neural Networks

Hamid Reza Pourghasemi,Candan Gokceoglu

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   Flood Forecasting Using Artificial Neural Networks P. Varoonchotikul,2017-10-02 This dissertation considers various questions with respect to the effects of salinity on nutrification what are the main inhibiting factors causing the effects do all salts have similar effects what is the maximum acceptable salt level are ammonia oxidisers or nitrite oxidizers most sensitive to salt stress can nitrifiers adapt to long term salt stress and are some specific nitrifiers more resistant to salt stress than others Research was carried out at laboratory scale and in full scale plants and modelling was employed in both phases to provide a mathematical description for salt inhibition on nitrification and to facilitate the comparison The result has led to an improved understanding of the effect of salinity on nitrification The results can be used to improve the sustainability of the exisisting wastewater treatment plants operated under salt stress   **Flood Forecasting Using Artificial Neural Networks** P Varoonchotikul,2003-01-01 Flood disasters continue to occur in many countries in the world and cause tremendous casualties and property damage To mitigate the effects of floods a range of structural and non structural measures have been employed including dykes channelling flood proofing property land use regulation and flood warning schemes Such schemes can include the use of Artificial Neural Networks ANN for modelling the rainfall run off process as it is a quick and flexible approach which gives very promising results However the inability of ANN to extrapolate beyond the limits of the training range is a serious limitation of the method and this book examines ways of side stepping or solving this complex issue   Flood Forecasting Using Machine Learning Methods Fi-John Chang,Kuolin Hsu,Li-Chiu Chang,2019-02-28 Nowadays the degree and scale of flood hazards has been massively increasing as a result of the changing climate and large scale floods jeopardize lives and properties causing great economic losses in the inundation prone areas of the world Early flood warning systems are promising countermeasures against flood hazards and losses A collaborative assessment according to multiple disciplines comprising hydrology remote sensing and meteorology of the magnitude and impacts of flood hazards on inundation areas significantly contributes to model the integrity and precision of flood forecasting Methodologically oriented countermeasures against flood hazards may involve the forecasting of reservoir inflows river flows tropical cyclone tracks and flooding at different lead times and or scales Analyses of impacts risks uncertainty resilience and scenarios coupled with policy oriented suggestions will give information for flood hazard mitigation Emerging advances in computing technologies coupled with big data mining have boosted data driven applications among which Machine Learning technology with its flexibility and scalability in pattern extraction has modernized not only scientific thinking but also predictive applications This book explores recent Machine Learning advances on flood forecast and management in a timely manner and presents interdisciplinary approaches to modelling the complexity of flood hazards related issues with contributions to integrative solutions from a local regional or global perspective   Flood Forecasting Using Artificial Neural Network (ANN) in Maran, Pahang Nur Atiyah Dinie Mat Arifin,2014   **Metaheuristic Algorithms and Neural Networks in Hydrology**

Kuok King Kuok,Md Rezaur Rahman,2024-08-28 This book summarizes the latest research and developments related to the application of nature inspired metaheuristic algorithms coupled with artificial neural networks ANNs in hydrology The book covers the theoretical foundations models and methods structure frameworks and analysis of applying novel ANNs in hydrology It starts with the introduction of ANNs as a black box model followed by the coupling of various metaheuristic algorithms with ANNs to form novel neural network models for solving real world problems in hydrology including Particle Swarm Optimization PSO for rainfall runoff modeling Bat Optimization Bat and Cuckoo Search Optimization CSO for future rainfall prediction the Whale Optimization Algorithm WOA and Salp Swarm Optimization SSO for future water level prediction Grey Wolf Optimization GWO Multi Verse Optimization MVO the Sine Cosine Algorithm SCA and the Hybrid Sine Cosine and Fitness Dependent Optimizer SC FDO for imputing missing rainfall data *Flash Flood Forecasting Over Complex Terrain* National Research Council,Division on Earth and Life Studies,Board on Atmospheric Sciences and Climate,Committee to Assess NEXRAD Flash Flood Forecasting Capabilities at Sulphur Mountain, California,2005-01-28 The nation s network of more than 130 Next Generation Radars NEXRADs is used to detect wind and precipitation to help National Weather Service forecasters monitor and predict flash floods and other storms This book assesses the performance of the Sulphur Mountain NEXRAD in Southern California which has been scrutinized for its ability to detect precipitation in the atmosphere below 6000 feet The book finds that the Sulphur Mountain NEXRAD provides crucial coverage of the lower atmosphere and is appropriately situated to assist the Los Angeles Oxnard National Weather Service Forecast Office in successfully forecasting and warning of flash floods The book concludes that in general NEXRAD technology is effective in mountainous terrain but can be improved **Integration of Information for Environmental Security** H. Gonca Coskun,H. Kerem Cigizoglu,M. Derya Maktav,2008-10-28 Water management and disasters including droughts and floods are becoming very important subjects in the international platforms This book will provide information about high technology techniques to solve important problems using remote sensing and GIS for topics such as the environmental security water resources management disaster forecast and prevention and information security **Advancing Artificial Intelligence through Biological Process Applications** Porto Pazos, Ana B.,Pazos Sierra, Alejandro,Buño Buceta, Washington,2008-07-31 As science continues to advance researchers are continually gaining new insights into the way living beings behave and function and into the composition of the smallest molecules Most of these biological processes have been imitated by many scientific disciplines with the purpose of trying to solve different problems one of which is artificial intelligence Advancing Artificial Intelligence through Biological Process Applications presents recent advances in the study of certain biological processes related to information processing that are applied to artificial intelligence Describing the benefits of recently discovered and existing techniques to adaptive artificial intelligence and biology this book will be a highly valued addition to libraries in the neuroscience molecular biology and behavioral science spheres <u>Use of Meta-Heuristic</u>

Techniques in Rainfall-Runoff Modelling Kwok-wing Chau,2018-07-10 This book is a printed edition of the Special Issue Use of Meta Heuristic Techniques in Rainfall Runoff Modelling that was published in Water **Machine Learning Algorithms and Applications in Engineering** Prasenjit Chatterjee,Morteza Yazdani,Francisco Fernández-Navarro,Javier Pérez-Rodríguez,2023-02-28 Machine Learning ML is a sub field of artificial intelligence that uses soft computing and algorithms to enable computers to learn on their own and identify patterns in observed data build models that explain the world and predict things without having explicit pre programmed rules and models This book discusses various applications of ML in engineering fields and the use of ML algorithms in solving challenging engineering problems ranging from biomedical transport supply chain and logistics to manufacturing and industrial Through numerous case studies it will assist researchers and practitioners in selecting the correct options and strategies for managing organizational tasks **Soft Computing and Geospatial Techniques in Water Resources Engineering** Manish Pandey,K. V. Jayakumar,Manali Pal,Vijay P. Singh,2024-12-01 This book comprises proceedings of the 28th International Conference on Hydraulics Water Resources River and Coastal Engineering HYDRO 2023 It focuses on emerging opportunities and challenges in the field of soft computing and geospatial techniques in water resources engineering The book covers a range of topics including but not limited to satellite derived data for hydrologic applications Geospatial Information System GIS and Remote Sensing RS applications in water resources management rainfall and streamflow prediction hydro informatics data driven and artificial intelligent based hydrological modelling optimization of water resources systems The book presents these topics in the form of illustrations and tables thereby providing the readers with an in depth insight into the recent research It also addresses fundamental concepts and studies in the field of soft computing and geospatial techniques in water resources engineering making it a valuable resource for researchers and professionals working in the fields of hydraulics water resources and coastal engineering Big Data Analytics and Data Science Vikrant Bhateja,Hong Lin,Milan Simic,Jinshan Tang,Vustikayala Sivakumar Reddy,2024-12-23 This book presents a collection of high quality peer reviewed research papers from the 8th International Conference on Information System Design and Intelligent Applications ISDIA 2024 held in Dubai UAE from 3 4 January 2024 It covers a wide range of topics in computer science and information technology including data mining and data warehousing high performance computing parallel and distributed computing computational intelligence soft computing big data cloud computing grid computing cognitive computing and information security Advances in Hydroinformatics Philippe Gourbesville,Jean Cunge,Guy Caignaert,2018-02-26 This book gathers a collection of extended papers based on presentations given during the SimHydro 2017 conference held in Sophia Antipolis Nice France on June 14 16 2017 It focuses on how to choose the right model in applied hydraulics and considers various aspects including the modeling and simulation of fast hydraulic transients 3D modeling uncertainties and multiphase flows The book explores both limitations and performance of current models and presents the latest developments in new numerical schemes high performance

computing multiphysics and multiscale methods and better interaction with field or scale model data It gathers the lastest theoretical and innovative developments in the modeling field and presents some of the most advance applications on various water related topics like uncertainties flood simulation and complex hydraulic applications Given its breadth of coverage it addresses the needs and interests of practitioners stakeholders researchers and engineers alike **Proceedings of World Conference on Artificial Intelligence: Advances and Applications** Ashish Kumar Tripathi,Darpan Anand,Atulya K. Nagar,2023-11-01 This book is a collection of outstanding research papers presented at the World Conference on Artificial Intelligence Advances and Applications WCAIAA 2023 organized by Sir Padampat Singhania University India and is technically sponsored by Soft Computing Research Society during March 18 19 2023 The topics covered are agent based systems evolutionary algorithms approximate reasoning bioinformatics and computational biology artificial intelligence in modeling and simulation natural language processing brain machine interfaces collective intelligence computer vision and speech understanding data mining swarm intelligence machine learning human computer interaction intelligent sensor devices and applications and intelligent database systems Applications of Remote Sensing/ GIS in Water Resources and Flooding Risk Managements Hongjie Xie ,Xianwei Wang,2018-08-21 This book is a printed edition of the Special Issue Applications of Remote Sensing GIS in Water Resources and Flooding Risk Managements that was published in Water

Handbook of Research on Predictive Modeling and Optimization Methods in Science and Engineering Kim, Dookie,Sekhar Roy, Sanjiban,Länsivaara, Tim,Deo, Ravinesh,Samui, Pijush,2018-06-15 The disciplines of science and engineering rely heavily on the forecasting of prospective constraints for concepts that have not yet been proven to exist especially in areas such as artificial intelligence Obtaining quality solutions to the problems presented becomes increasingly difficult due to the number of steps required to sift through the possible solutions and the ability to solve such problems relies on the recognition of patterns and the categorization of data into specific sets Predictive modeling and optimization methods allow unknown events to be categorized based on statistics and classifiers input by researchers The Handbook of Research on Predictive Modeling and Optimization Methods in Science and Engineering is a critical reference source that provides comprehensive information on the use of optimization techniques and predictive models to solve real life engineering and science problems Through discussions on techniques such as robust design optimization water level prediction and the prediction of human actions this publication identifies solutions to developing problems and new solutions for existing problems making this publication a valuable resource for engineers researchers graduate students and other professionals Modeling Methods and Practices in Soil and Water Engineering Balram Panigrahi,Megh R. Goyal,2017-03-16 This book discusses the development of useful models and their applications in soil and water engineering It covers various modeling methods including groundwater recharge estimation rainfall runoff modeling using artificial neural networks development and application of a water balance model and a HYDRUS 2D model for cropped fields a multi

model approach for stream flow simulation multi criteria analysis for construction of groundwater structures in hard rock terrains hydrologic modeling of watersheds using remote sensing and GIS and AGNPS **Emerging Technologies in Data Mining and Information Security** Ajith Abraham,Paramartha Dutta,Jyotsna Kumar Mandal,Abhishek Bhattacharya,Soumi Dutta,2018-12-12 This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security IEMIS 2018 held at the University of Engineering Management Kolkata India on February 23 25 2018 It comprises high quality research work by academicians and industrial experts in the field of computing and communication including full length papers research in progress papers and case studies related to all the areas of data mining machine learning Internet of Things IoT and information security *Spatial Modeling in GIS and R for Earth and Environmental Sciences* Hamid Reza Pourghasemi,Candan Gokceoglu,2019-01-18 Spatial Modeling in GIS and R for Earth and Environmental Sciences offers an integrated approach to spatial modelling using both GIS and R Given the importance of Geographical Information Systems and geostatistics across a variety of applications in Earth and Environmental Science a clear link between GIS and open source software is essential for the study of spatial objects or phenomena that occur in the real world and facilitate problem solving Organized into clear sections on applications and using case studies the book helps researchers to more quickly understand GIS data and formulate more complex conclusions The book is the first reference to provide methods and applications for combining the use of R and GIS in modeling spatial processes It is an essential tool for students and researchers in earth and environmental science especially those looking to better utilize GIS and spatial modeling Offers a clear interdisciplinary guide to serve researchers in a variety of fields including hazards land surveying remote sensing cartography geophysics geology natural resources environment and geography Provides an overview methods and case studies for each application Expresses concepts and methods at an appropriate level for both students and new users to learn by example **Artificial Neural Networks in Hydrology** R.S. Govindaraju,A.R. Rao,2013-03-09 R S GOVINDARAJU and ARAMACHANDRA RAO School of Civil Engineering Purdue University West Lafayette IN USA Background and Motivation The basic notion of artificial neural networks ANNs as we understand them today was perhaps first formalized by McCulloch and Pitts 1943 in their model of an artificial neuron Research in this field remained somewhat dormant in the early years perhaps because of the limited capabilities of this method and because there was no clear indication of its potential uses However interest in this area picked up momentum in a dramatic fashion with the works of Hopfield 1982 and Rumelhart et al 1986 Not only did these studies place artificial neural networks on a firmer mathematical footing but also opened the dOOf to a host of potential applications for this computational tool Consequently neural network computing has progressed rapidly along all fronts theoretical development of different learning algorithms computing capabilities and applications to diverse areas from neurophysiology to the stock market Initial studies on artificial neural networks were prompted by adesire to have computers mimic human learning As a

result the jargon associated with the technical literature on this subject is replete with expressions such as excitation and inhibition of neurons strength of synaptic connections learning rates training and network experience ANNs have also been referred to as neurocomputers by people who want to preserve this analogy

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