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Intelligent Software Defect Prediction Meta-Learning Computational Intelligence Techniques and Their Applications to Software Engineering Problems Machine Learning Techniques on Gene Function Prediction Spectrum Sharing in Cognitive Radio Networks Space Weather Prediction: Challenges and Prospects Flood Forecasting Using Machine Learning Methods Augmenting Neurological Disorder Prediction and Rehabilitation Using Artificial Intelligence Genomic Prediction of Complex Traits ECAI 2020 Recent Advancement in Geoinformatics and Data Science Natural Language Processing and Chinese Computing Domino Effect: Its Prediction and Prevention Deep learning approaches in image-guided diagnosis for tumors Geological Disasters in Deep Engineering Mechanism, Warning and Risk mitigation Computational Methods to Analyze RNA Data for Human Diseases The Age of Prediction System Biology Methods and Tools for Integrating Omics Data Frontier Research: Road and Traffic Engineering Deep Learning Applications and Intelligent Decision Making in Engineering Predictions for 2015 Corporate Bankruptcy Prediction AI-based prediction of high-impact weather and climate extremes under global warming: A perspective from the large-scale circulations and teleconnections Solar-Terrestrial Environmental Prediction Intelligent Data Analytics for Terror Threat Prediction Machine Learning for Peptide Structure, Function, and Design Machine Learning Techniques on Gene Function Prediction Volume II Civil Engineering for Multi-Hazard Risk Reduction First-Principles Prediction of Structures and Properties in Crystals Molecular Biomarkers in the Prediction, Diagnosis, and Prognosis of Neurodegenerative Diseases Advances in Numerical Model, Data Assimilation, and Observations for Hazardous Weather Prediction Artificial Intelligence for Innovative Healthcare Informatics Brain Functional Analysis and Brain-like Intelligence Deep Learning for Toxicity and Disease Prediction Intelligent Computing Personalization in Modern Radiation Oncology: Predictions, Prognosis and Survival Microbiome and Machine Learning Prognosis prediction and risk stratification in head and neck cancer Global Groundwater Advances in Materials and Pavement Performance Prediction II

Intelligent Software Defect Prediction *2024-01-17*

with the increasing complexity of and dependency on software software products may suffer from low quality high prices be hard to maintain etc software defects usually produce incorrect or unexpected results and behaviors accordingly software defect prediction sdp is one of the most active research fields in software engineering and plays an important role in software quality assurance based on the results of sdp analyses developers can subsequently conduct defect localization and repair on the basis of reasonable resource allocation which helps to reduce their maintenance costs this book offers a comprehensive picture of the current state of sdp research more specifically it introduces a range of machine learning based sdp approaches proposed for different scenarios i e wpdp cpdp and hdp in addition the book shares in depth insights into current sdp approaches performance and lessons learned for future sdp research efforts we believe these theoretical analyses and emerging challenges will be of considerable interest to all researchers graduate students and practitioners who want to gain deeper insights into and or find new research directions in sdp it offers a comprehensive introduction to the current state of sdp and detailed descriptions of representative sdp approaches

Meta-Learning *2022-11-05*

deep neural networks dnns with their dense and complex algorithms provide real possibilities for artificial general intelligence agi meta learning with dnns brings agi much closer artificial agents solving intelligent tasks that human beings can achieve even transcending what they can achieve meta learning theory algorithms and applications shows how meta learning in combination with dnns advances towards agi meta learning theory algorithms and applications explains the fundamentals of meta learning by providing answers to these questions what is meta learning why do we need meta learning how are self improved meta learning mechanisms heading for agi how can we use meta learning in our approach to specific scenarios the book presents the background of seven mainstream paradigms meta learning few shot learning deep learning transfer learning machine learning probabilistic modeling and bayesian inference it then explains important state of the art mechanisms and their variants for meta learning including memory augmented neural networks meta networks convolutional siamese neural networks matching networks prototypical networks relation networks lstm meta learning model agnostic meta learning and the reptile algorithm the book takes a deep dive into nearly 200 state of the art meta learning algorithms from top tier conferences e g neurips icml cvpr acl iclr kdd it systematically investigates 39 categories of tasks from 11 real world application fields computer vision natural language processing meta reinforcement learning healthcare finance and economy construction materials graphic neural networks program synthesis smart city recommended systems and climate science each application field concludes by looking at future trends or by giving a summary of available resources meta learning theory algorithms and applications is a great resource to understand the principles of meta learning and to learn state of the art meta learning algorithms giving the student researcher and industry professional the ability to apply meta learning for various novel applications a comprehensive overview of state of the art meta learning techniques and methods associated with deep neural networks together with a broad range of application areas coverage of nearly 200 state of the art meta learning algorithms which are promoted by premier global ai conferences and journals and 300 to 450 pieces of key research systematic and detailed exploration of the most crucial state of the art meta learning algorithm mechanisms model based metric based and optimization based provides solutions to the limitations of using deep learning and or machine learning methods particularly with small sample sizes and unlabeled data gives an understanding of how meta learning acts as a stepping stone to artificial general intelligence in 39 categories of tasks from 11 real world application fields

Computational Intelligence Techniques and Their Applications to Software Engineering Problems *2020-09-27*

computational intelligence techniques and their applications to software engineering problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization cost estimation reliability assessment defect prediction maintainability and quality prediction size estimation vulnerability prediction test case selection and prioritization and much more the concepts of expert systems case based reasoning fuzzy logic genetic algorithms swarm computing and rough sets are introduced with their applications in software engineering the field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets aimed at graduate students and researchers in computer science engineering software engineering information technology this book covers various aspects of in depth solutions of software engineering problems using computational intelligence techniques discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain covers heuristic as well as meta heuristic algorithms designed to provide better and optimized solutions illustrates applications including software requirement prioritization software cost estimation reliability assessment software defect prediction and more highlights swarm intelligence based optimization solutions for software testing and reliability problems

Machine Learning Techniques on Gene Function Prediction *2019-12-04*

spectrum sharing in cognitive radio networks discover the latest advances in spectrum sharing in wireless networks from two internationally recognized experts in the field spectrum sharing in cognitive radio networks towards highly connected environments delivers an in depth and insightful examination of hybrid spectrum access techniques with advanced frame structures designed for efficient spectrum utilization the accomplished authors present the energy and spectrum efficient frameworks used in high demand distributed architectures by relying on the self scheduled medium access control smc mac protocol in cognitive radio networks the book begins with an exploration of the fundamentals of recent advances in spectrum sharing techniques before moving onto advanced frame structures with spectrum accessing approaches and the role of spectrum prediction and spectrum monitoring to eliminate interference the authors also cover spectrum mobility interference and spectrum management for connected environments in substantial detail spectrum sharing in cognitive radio networks towards highly connected environments offers readers a recent and rational theoretical mathematical model of spectrum sharing strategies that can be used for practical simulation of future generation wireless communication technologies it also highlights ongoing trends revealing fresh research outcomes that will be of interest to active researchers in the area readers will also benefit from an inclusive study of connected environments 3gpp releases and the evolution of wireless communication generations with a discussion of advanced frame structures and access strategies in cognitive radio networks a treatment of cognitive radio networks using spectrum prediction and monitoring techniques an analysis of the effects of imperfect spectrum monitoring on cognitive radio networks an exploration of spectrum mobility in cognitive radio networks using spectrum prediction and monitoring techniques an examination of mimo based cr noma communication systems for spectral and interference efficient designs perfect for senior undergraduate and graduate students in electrical and electronics communication engineering programs spectrum sharing in cognitive radio networks towards highly connected environments will also earn a place in the libraries of professional engineers and researchers working in the field whether in private industry government or academia

Spectrum Sharing in Cognitive Radio Networks 2021-05-27

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

Space Weather Prediction: Challenges and Prospects *2022-02-04*

augmenting neurological disorder prediction and rehabilitation using artificial intelligence focuses on how the neurosciences can benefit from advances in ai especially in areas such as medical image analysis for the improved diagnosis of alzheimer s disease early detection of acute neurologic events prediction of stroke medical image segmentation for quantitative evaluation of neuroanatomy and vasculature diagnosis of alzheimer s disease autism spectrum disorder and other key neurological disorders chapters also focus on how ai can help in predicting stroke recovery and the use of machine learning and ai in personalizing stroke rehabilitation therapy other sections delve into epilepsy and the use of machine learning techniques to detect epileptogenic lesions on mris and how to understand neural networks provides readers with an understanding on the key applications of artificial intelligence and machine learning in the diagnosis and treatment of the most important neurological disorders integrates recent advancements of artificial intelligence and machine learning to the evaluation of large amounts of clinical data for the early detection of disorders such as alzheimer s disease autism spectrum disorder multiple sclerosis headache disorder epilepsy and stroke provides readers with illustrative examples of how artificial intelligence can be applied to outcome prediction neurorehabilitation and clinical exams including a wide range of case studies in predicting and classifying neurological disorders

Flood Forecasting Using Machine Learning Methods *2019-02-28*

this volume explores the conceptual framework and the practical issues related to genomic prediction of complex traits in human medicine and in animal and plant breeding the book is organized into five parts part one reminds molecular genetics approaches intending to predict phenotypic variations part two presents the principles of genomic prediction of complex traits and reviews factors that affect its reliability part three describes genomic prediction methods including machine learning approaches accounting for different degree of biological complexity and reviews the associated computer packages part four reports on emerging trends such as phenomic prediction and incorporation into genomic prediction models of omics data and crop growth models part five is dedicated to lessons learned from cases studies in the fields of human health and animal and plant breeding and to methods for analysis of the economic effectiveness of genomic prediction written in the highly successful methods in molecular biology series format the

book provides theoretical bases and practical guidelines for an informed decision making of practitioners and identifies pertinent routes for further methodological researches cutting edge and thorough complex trait predictions methods and protocols is a valuable resource for scientists and researchers who are interested in learning more about this important and developing field chapters 3 9 13 14 and 21 are available open access under a creative commons attribution 4 0 international license via link springer com

Augmenting Neurological Disorder Prediction and Rehabilitation Using Artificial Intelligence 2022-02-23

this book presents the proceedings of the 24th european conference on artificial intelligence ecai 2020 held in santiago de compostela spain from 29 august to 8 september 2020 the conference was postponed from june and much of it conducted online due to the covid 19 restrictions the conference is one of the principal occasions for researchers and practitioners of ai to meet and discuss the latest trends and challenges in all fields of ai and to demonstrate innovative applications and uses of advanced ai technology the book also includes the proceedings of the 10th conference on prestigious applications of artificial intelligence pais 2020 held at the same time a record number of more than 1 700 submissions was received for ecai 2020 of which 1 443 were reviewed of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25 for full papers and 45 for highlight papers the book is divided into three sections ecai full papers ecai highlight papers and pais papers the topics of these papers cover all aspects of ai including agent based and multi agent systems computational intelligence constraints and satisfiability games and virtual environments heuristic search human aspects in ai information retrieval and filtering knowledge representation and reasoning machine learning multidisciplinary topics and applications natural language processing planning and scheduling robotics safe explainable and trustworthy ai semantic technologies uncertainty in ai and vision the book will be of interest to all those whose work involves the use of ai technology

Genomic Prediction of Complex Traits 2022-04-22

this three volume set constitutes the refereed proceedings of the 12th national ccf conference on natural language processing and chinese computing nlpcc 2023 held in foshan china during october 12 15 2023 the 143 regular papers included in these proceedings were carefully reviewed and selected from 478 submissions they were organized in topical sections as follows dialogue systems fundamentals of nlp information extraction and knowledge graph machine learning for nlp machine translation and multilinguality multimodality and explainability nlp applications and text mining question answering large language models summarization and generation student workshop and evaluation workshop

ECAI 2020 2020-09-11

domino effect its prediction and prevention volume five in the methods in chemical process safety series focuses on the process of learning from experience including elements of process safety management human factors in the chemical process industries and the regulation of chemical process safety including current approaches users will find this book to be an informative tool and user manual for process safety for a variety of professionals this new release focuses on domino effect case histories and accident statistics the state of the art in domino effect modeling fire driven domino effect mitigation of domino effect and much more acquaints readers researchers with the fundamentals of process safety provides the most recent advancements and contributions from a practical point of view gives readers the views opinions of experts on each topic

Recent Advancement in Geoinformatics and Data Science *2023-04-11*

with the increasing demand for infrastructure construction as the global economy progresses the need for exploration and utilization of deep underground space becomes more crucial various deep underground projects are planned are under construction and have been built to encounter great construction challenges due to the complex geo environment such as strong tectonic movement fragile geo environment and complex thermo hydro mechanical chemical conditions these deep engineering projects could be endangered by different kinds of geological disasters such as intense rockburst large deformation strong water inrush and large scale collapse which might result in massive loss of life and economic damage during the construction of deep underground projects it is necessary to take proactive measures to ensure that the development of deep engineering projects is risk informed and sustainable efforts are being called for strengthening science and technology innovation and cooperation in geological disaster mitigation and sustainable development during the construction of deep engineering projects it is paramount to use new technologies and international cooperation to jointly tackle the geological disasters risks and achieve sustainable development to mitigate the risk of geological disaster in deep engineering under the complicate geo environment the mechanism of the formation and evolution of geological disasters in deep engineering needs to be understood the testing monitoring simulation risk assessment and early warning methods for geological disaster in deep engineering are also needed urgently new theories methods and techniques related to the mechanism warning and risk mitigation of geological disasters in deep engineering will be extremely helpful for the construction safety of deep engineering

Natural Language Processing and Chinese Computing 2023-10-07

the power of the ever increasing tools and algorithms for prediction and their paradoxical effects on risk the age of prediction is about two powerful and symbiotic trends the rapid development and use of artificial intelligence and big data to enhance prediction as well as the often paradoxical effects of these better predictions on our understanding of risk and the ways we live beginning with dramatic advances in quantitative investing and precision medicine this book explores how predictive technology is quietly reshaping our world in fundamental ways from crime fighting and warfare to monitoring individual health and elections as prediction grows more robust it also alters the nature of the accompanying risk setting up unintended and unexpected consequences the age of prediction details how predictive certainties can bring about complacency or even an increase in risks genomic analysis might lead to unhealthier lifestyles or a gps might encourage less attentive driving with greater predictability also comes a degree of mystery and the authors ask how narrower risks might affect markets insurance or risk tolerance generally can we ever reduce risk to zero should we even try this book lays an intriguing groundwork for answering these fundamental questions and maps out the latest tools and technologies that power these projections into the future sometimes using novel cross disciplinary tools to map out cancer growth people s medical risks and stock dynamics

Domino Effect: Its Prediction and Prevention *2021-07-09*

this ebook is a collection of articles from a frontiers research topic frontiers research topics are very popular trademarks of the frontiers journals series they are collections of at least ten articles all centered on a particular subject with their unique mix of varied contributions from original research to review articles frontiers research topics unify the most influential researchers the latest key findings and historical advances in a hot research area find out more on how to host your own frontiers research topic or contribute to one as an author by contacting the frontiers editorial office frontiersin org about contact

Deep learning approaches in image-guided diagnosis for tumors *2023-03-13*

this book contains selected papers resulting from the 2020 international conference on road and traffic engineering crte 2020 covering road engineering and traffic engineering aiming to provide an academic and technical communication platform for scholars and engineers engaged in scientific research and engineering practice in the field of road engineering and materials traffic engineering and management and transportation engineering by sharing the research status of scientific research achievements and cutting edge technologies it helps scholars and engineers all over the world to comprehend the academic development trends and broaden research ideas so as to strengthen international academic research academic topics exchange and discussion and promote the industrialization cooperation of academic achievements

Geological Disasters in Deep Engineering Mechanism, Warning and Risk mitigation 2023-06-15

deep learning includes a subset of machine learning for processing the unsupervised data with artificial neural network functions the major advantage of deep learning is to process big data analytics for better analysis and self adaptive algorithms to handle more data when applied to engineering deep learning can have a great impact on the decision making process deep learning applications and intelligent decision making in engineering is a pivotal reference source that provides practical applications of deep learning to improve decision making methods and construct smart environments highlighting topics such as smart transportation e commerce and cyber physical systems this book is ideally designed for engineers computer scientists programmers software engineers research scholars it professionals academicians and postgraduate students seeking current research on the implementation of automation and deep learning in various engineering disciplines

Computational Methods to Analyze RNA Data for Human Diseases 2023-09-25

predictions for 2015 revised edition will two great tidal waves earthquakes storms volcano eruptions terrorist attacks and wars hit the u s eastern coast line or western coast line or mid west on september 27 2015 will billy graham and pat robertson die on this same date or near it will on this same date the earth stop rotating causing three days of darkness then it starts again only to have venus life to rotate counterclockwise opposite what it rotates now making long life for everyone and the curse of the ground and animals will be gone will there be an evil rapture at this time taking every evil person off the earth and their bodies lay on the ground for eagles and vultures to eat will massive amounts of gold and oil be found in the u s and prospers everyone in the world demons and satan will be bound up in hell and or the u s or iraq for a 1000 years and good angels possess people souls bringing good health of mind body and soul for a 1000 years half of this book was written by november 11 2011 11 11 11 and the last three chapters were written by february 14 2015

The Age of Prediction *2023-08-22*

bankruptcy prediction is one of the most important research areas in corporate finance bankruptcies are an indispensable element of the functioning of the market economy and at the same time generate significant losses for stakeholders hence this book was established to collect the results of research on the latest trends in predicting the bankruptcy of enterprises it suggests models developed for different countries using both traditional and more advanced methods problems connected with predicting bankruptcy during

periods of prosperity and recession the selection of appropriate explanatory variables as well as the dynamization of models are presented the reliability of financial data and the validity of the audit are also referenced thus i hope that this book will inspire you to undertake new research in the field of forecasting the risk of bankruptcy

System Biology Methods and Tools for Integrating Omics Data *2020-12-31*

powerful solar explosions such as flares and coronal mass ejections greatly disturb the electromagnetic environment around the earth and the atmosphere they may even impact various social systems communications positioning electric power supply aviation and activities in space such variations in the space environment which can influence human activities are called space weather the space weather disaster caused by a solar explosion is a potential risk in modern society to reduce and mitigate space weather impacts it is essential to understand the structure and dynamics of the solar terrestrial environment and to predict the variations this book comprehensively describes space weather from the basics of related sciences to the possible social impacts it was compiled based on a national research project on solar terrestrial environment prediction conducted in japan recently it consists of four parts the linkage between space weather and society the magnetosphere of the earth and space weather prediction solar storms and space weather prediction and long term prediction of solar cycle activity and climate impacts each chapter covers the basics and applications of each area which helps readers gain a broad understanding of the subject matter throughout the book in addition readers are able to select and read the topics they are most interested in it is especially valuable for undergraduate and graduate students and young researchers studying space weather and related topics and is further helpful for experts in various industries related to space weather disasters the translation was done with the help of artificial intelligence machine translation by the service deepl com the present version has been revised technically and linguistically by the authors in collaboration with a professional translator

Frontier Research: Road and Traffic Engineering *2022-11-01*

intelligent data analytics for terror threat prediction is an emerging field of research at the intersection of information science and computer science bringing with it a new era of tremendous opportunities and challenges due to plenty of easily available criminal data for further analysis this book provides innovative insights that will help obtain interventions to undertake emerging dynamic scenarios of criminal activities furthermore it presents emerging issues challenges and management strategies in public safety and crime control development across various domains the book will play a vital role in improvising human life to a great extent researchers and practitioners working in the fields of data mining machine learning and artificial intelligence will greatly benefit from this book which will be a good addition to the state of the art approaches collected for intelligent data analytics it will also be very beneficial for those who are new to the field and need to quickly become acquainted with the best performing methods with this book they will be able to compare different approaches and carry forward their research in the most important areas of this field which has a direct impact on the betterment of human life by maintaining the security of our society no other book is currently on the market which provides such a good collection of state of the art methods for intelligent data analytics based models for terror threat prediction as intelligent data analytics is a newly emerging field and research in data mining and machine learning is still in the early stage of development

Deep Learning Applications and Intelligent Decision Making in Engineering *2020-10-23*

the term first principles calculations is a synonym for the numerical determination of the electronic structure of atoms molecules clusters or materials from first principles i e without any approximations to the underlying quantum mechanical equations although numerous approximate approaches have been developed for small molecular systems since the late 1920s it was not until the advent of the density functional theory dft in the 1960s that accurate first principles calculations could be conducted for crystalline materials the rapid development of this method over the past two decades allowed it to evolve from an explanatory to a truly predictive tool yet challenges remain complex chemical compositions variable external conditions such as pressure defects or properties that rely on collective excitations all represent computational and or methodological bottlenecks this special issue comprises a collection of papers that use dft to tackle some of these challenges and thus highlight what can and cannot yet be achieved using first principles calculations of crystals

Predictions for 2015 2015-01-06

accurate and timely forecasting of hazardous weather events induced by meso scale convection systems mcss is the key to safeguarding lives and property yet the mcs forecasting is challenging due to imperfect initial numerical conditions that lack meso scale convective information and multi scale dynamic and thermodynamic consistency remote sensing observations are the primary source of estimating weather conditions such as moisture wind velocity and precipitation it is of fundamental pivotality to develop data assimilation technologies to enhance applications of multi source observations performance assessments of new types of observations facilitate the network designment for regional and storm scale numerical models this research topic seeks submissions underscoring the improvement of the accuracy of mcs predictions warnings and decision support for high impact weather events as well as observation network designs

Corporate Bankruptcy Prediction *2020-06-16*

there are several popular books published in healthcare computational informatics like computational bioengineering and bioinformatics 2020 springer health informatics 2017 springer health informatics vision from data via information to knowledge 2019 ios press data analytics in biomedical engineering and healthcare 2020 elsevier however in all these mentioned books the challenges in biomedical imaging are solved in one dimension by use of any specific technology like image processing machine learning or computer aided systems in this book the book it has been attempted to bring all technologies related to computational analytics together and apply them on biomedical imaging

AI-based prediction of high-impact weather and climate extremes under global warming: A perspective from the large-scale circulations and teleconnections *2023-02-14*

this book is a collection of extremely well articulated insightful and unique state ofthe art papers presented at the computing conference which took place in london on june 22 23 2023 a total of 539 papers were received out of which 193 were selected for presenting after double blind peer review the book covers a wide range of scientific topics

including iot artificial intelligence computing data science networking data security and privacy etc the conference was successful in reaping the advantages of both online and offline modes the goal of this conference is to give a platform to researchers with fundamental contributions and to be a premier venue for academic and industry practitioners to share new ideas and development experiences we hope that readers find this book interesting and valuable we also expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject

Solar-Terrestrial Environmental Prediction *2023-01-31*

global groundwater source scarcity sustainability security and solutions presents a compilation of compelling insights into groundwater scenarios within all groundwater stressed regions across the world thematic sub sections include groundwater studies on sources scarcity sustainability security and solutions the chapters in these sub sections provide unique knowledge on groundwater for scientists planners and policymakers and are written by leading global experts and researchers global groundwater source scarcity sustainability security and solutions provides a unique unparalleled opportunity to integrate the knowledge on groundwater ranging from availability to pollution nation level groundwater management to transboundary aquifer governance and global scale review to local scale case studies provides interdisciplinary content that bridges the knowledge from groundwater sources to solutions and sustainability from science to policy from technology to clean water and food includes global and regional reviews and case studies building a bridge between broad reviews of groundwater related issues by domain experts as well as detailed case studies by researchers identifies pathways for transforming knowledge to policy and governance of groundwater security and sustainability

Intelligent Data Analytics for Terror Threat Prediction *2021-01-12*

inspired from the legacy of the previous four 3dfem conferences held in delft and athens as well as the successful 2018 am3p conference held in doha the 2020 am3p conference continues the pavement mechanics theme including pavement models experimental methods to estimate model parameters and their implementation in predicting pavement performance the am3p conference is organized by the standing international advisory committee siac at the time of this publication chaired by professors tom scarpas eyad masad and amit bhasin advances in materials and pavement performance prediction ii includes over 111 papers presented at the 2020 am3p conference the technical topics covered include rigid pavements pavement geotechnics statistical and data tools in pavement engineering pavement structures asphalt mixtures asphalt binders the book will be invaluable to academics and engineers involved or interested in pavement engineering pavement models experimental methods to estimate model parameters and their implementation in predicting pavement performance

Machine Learning for Peptide Structure, Function, and Design *2022-11-07*

Machine Learning Techniques on Gene Function Prediction Volume II *2023-04-11*

Civil Engineering for Multi-Hazard Risk Reduction *2019-10-25*

First-Principles Prediction of Structures and Properties in Crystals *2023-07-06*

Molecular Biomarkers in the Prediction, Diagnosis, and Prognosis of Neurodegenerative Diseases *2023-10-30*

Advances in Numerical Model, Data Assimilation, and Observations for Hazardous Weather Prediction *2022-05-23*

Artificial Intelligence for Innovative Healthcare Informatics 2024-03-12

Brain Functional Analysis and Brain-like Intelligence 2020-04-01

Deep Learning for Toxicity and Disease Prediction 2023-08-19

Intelligent Computing *2022-12-01*

Personalization in Modern Radiation Oncology: Predictions, Prognosis and Survival *2022-08-02*

Microbiome and Machine Learning *2023-02-03*

Prognosis prediction and risk stratification in head and neck cancer *2020-11-08*

Global Groundwater *2020-12-08*

Advances in Materials and Pavement Performance Prediction II

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