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Modeling and Control of Complex Systems Informatics Engineering and Information Science, Part III Interpretable Machine Learning for the Analysis, Design, Assessment, and Informed Decision Making for Civil Infrastructure Signal Processing and Information Technology Issues in Medical Lasers, Imaging, and Devices Research and Application: 2011 Edition Handbook of Environment and Waste Management Advances in Wireless, Mobile Networks and Applications Proceedings of International Conference on Computational Intelligence and Data Engineering Handbook of Research on Emerging Perspectives on Healthcare Information Systems and Informatics COVID-19 Pandemic: Mental health, life habit changes and social phenomena Pervasive Communications Handbook Angiography Quarterly Review of Distance Education Area Handbook for the Hashemite Kingdom of Jordan Nanofillers Modern Applications of Geotechnical Engineering and Construction Advanced Processing, Properties, and Applications of Starch and Other Bio-based Polymers Bioethics Amidst the COVID-19 Pandemic Nanocellulose-Reinforced Thermoplastic Starch Composites Dynamics of Civil Structures, Volume 2 Algal Biorefineries Materials Characterisation IV Hydrology and Water Resources Mechanical and Aerospace Engineering, ICMAE2011 Technological Innovations in Knowledge Management and Decision Support Who's Who in Computational Science and Engineering Machine Learning Applications in Civil Engineering Kenaf Fibers and Composites Research Anthology on Artificial Neural Network Applications Smart Trends in Systems, Security and Sustainability Antenna Systems Recent Developments on Industrial Control Systems Resilience Public perspectives on health and wellbeing Principles of Bacterial Detection: Biosensors, Recognition Receptors and Microsystems The Hashemite Kingdom of Jordan Date Palm Fiber Composites Heritage and Community Engagement Intelligent System Design Handbook of Materials Failure Analysis Composites in Biomedical Applications

Modeling and Control of Complex Systems 2007-12-26 comprehension of complex systems comes from an understanding of not only the behavior of constituent elements but how they act together to form the behavior of the whole however given the multidisciplinary nature of complex systems the scattering of information across different areas creates a chaotic situation for those trying to understand pos

Informatics Engineering and Information Science, Part III 2011-10-28 this 4 volume set ccis 0251 ccis 0254 constitutes the refereed proceedings of the international conference on informatics engineering and information science icieis 2011 held in kuala lumpur malaysia in november 2011 the 210 revised full papers presented together with invited papers in the 4 volumes were carefully reviewed and selected from numerous submissions the papers are organized in topical sections on e learning information security software engineering image processing algorithms artificial intelligence and soft computing e commerce data mining neural networks social networks grid computing biometric technologies networks distributed and parallel computing wireless networks information and data management web applications and software systems multimedia ad hoc networks mobile computing as well as miscellaneous topics in digital information and communications

Interpretable Machine Learning for the Analysis, Design, Assessment, and Informed Decision Making for Civil Infrastructure 2023-11-01 the past few years have demonstrated how civil infrastructure continues to experience an unprecedented scale of extreme loading conditions i e hurricanes wildfires and earthquakes despite recent advancements in various civil engineering disciplines specific to the analysis design and assessment of structures it is unfortunate that it is common nowadays to witness large scale damage in buildings bridges and other infrastructure the analysis design and assessment of infrastructure comprises of a multitude of dimensions spanning a highly complex paradigm across material sciences structural engineering construction and planning among others while traditional methods fall short of adequately accounting for such complexity fortunately computational intelligence presents novel solutions that can effectively tackle growing demands of intense extreme events and modern designs of infrastructure especially in this era where infrastructure is reaching new heights and serving larger populations with high social awareness and expectations computational intelligence for analysis design and assessment of civil infrastructure highlights the growing trend of fostering the use of ci to realize contemporary smart and safe infrastructure this is an emerging area that has not fully matured yet and hence the book will draw considerable interest and attention in a sense the book presents results of innovative efforts supplemented with case studies from leading researchers that can be used as benchmarks to carryout future experiments and or facilitate development of future experiments and advanced numerical models the book is written with the intention to serve as a guide for a wide audience including senior postgraduate students academic and industrial researchers materials scientists and practicing engineers working in civil structural and mechanical engineering focuses on civil engineering applications for extreme events explains the fundamentals of ai ml and how they can be applied in civil engineering features case study examples design codes and problems and solutions that would work for extreme events

Signal Processing and Information Technology 2012-07-25 this book constitutes the thoroughly refereed post conference proceedings of the first international joint conference on advances in signal processing and information technology spit 2011 and recent trends in information processing and computing ipc 2011 held in amsterdam the netherlands in december 2011 the 50 revised full papers presented were carefully selected from 298 submissions conference papers promote research and development activities in computer science information technology computational engineering image and signal processing and communication

Issues in Medical Lasers, Imaging, and Devices Research and Application: 2011 Edition 2012-01-09 issues in medical lasers imaging and devices research and application 2011 edition is a scholarly editions ebook that delivers timely authoritative and comprehensive

information about medical lasers imaging and devices research and application the editors have built issues in medical lasers imaging and devices research and application 2011 edition on the vast information databases of scholarlynews you can expect the information about medical lasers imaging and devices research and application in this ebook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of issues in medical lasers imaging and devices research and application 2011 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarlyeditions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarlyeditions com

Handbook of Environment and Waste Management 2012 this is a compilation of topics that are at the forefront of many technical advances and practices in air and water control these include air pollution control water pollution control water treatment wastewater treatment industrial waste treatment and small scale wastewater treatment

Advances in Wireless, Mobile Networks and Applications 2011-05-10 this book constitutes the refereed proceedings of the third international conference on wireless mobile networks and applications wimoa 2011 and the first international conference on computer science engineering and applications iccsea 2011 held in dubai united arab emirates in may 2011 the book is organized as a collection of papers from wimoa 2011 and iccsea 2011 the 8 revised full papers presented in the wimoa 2011 part were carefully reviewed and selected from 63 submissions the 20 revised full papers presented in the iccsea 2011 part were carefully reviewed and selected from 110 submissions

Proceedings of International Conference on Computational Intelligence and Data Engineering 2022-02-28 this book covers various topics including collective intelligence intelligent transportation systems fuzzy systems bayesian network ant colony optimization data privacy and security data mining data warehousing big data analytics cloud computing natural language processing swarm intelligence and speech processing this book is a collection of high quality research work on cutting edge technologies and the most happening areas of computational intelligence and data engineering it includes selected papers from the international conference on computational intelligence and data engineering iccide 2021

Handbook of Research on Emerging Perspectives on Healthcare Information Systems and Informatics 2018-05-11 over the decades the fields of health information systems and informatics have seen rapid growth such integrative efforts within the two disciplines have resulted in emerging innovations within the realm of medicine and healthcare the handbook of research on emerging perspectives on healthcare information systems and informatics provides emerging research on the innovative practices of information systems and informatic software in providing efficient safe and impactful healthcare systems while highlighting topics such as conceptual modeling surveillance data and decision support systems this handbook explores the applications and advancements in technological adoption and application of information technology in health institutions this publication is a vital resource for hospital administrators healthcare professionals researchers and practitioners seeking current research on health information systems in the digital era

COVID-19 Pandemic: Mental health, life habit changes and social phenomena 2023-01-19 in an emergency availability of the pervasive communications environment could mean the difference between life and death possibly one of the first guides to comprehensively explore these futuristic omnipresent communications networks the pervasive communications handbook addresses current technology i e mac protocols and p2p based vod architecture and developments expected in the very near future when most people and places will be virtually connected through a constant and perpetual exchange of information this monumental advance in communications is set to dramatically change daily life in areas ranging from healthcare transportation and education to commerce and socialization with contributions from

dozens of pioneering experts this important reference discusses one to one one to many and many to one exchanges of information organized by the three key aspects technology architecture and applications the book explores enabling technologies applications and services location and mobility management and privacy and trust citing the technology s importance to energy distribution home automation and telecare among other areas it delves into topics such as quality of service security efficiency and reliability in mobile network design and environment interoperability

Pervasive Communications Handbook 2017-09-29 atherosclerotic cardiovascular disease is still the most common cause of death among adults its prevalence is increasing in developing countries and despite all advances in both diagnostic tools and treatment modalities it is still very common in the developed world obesity diabetes mellitus hypercholesterolemia and overuse of dietary salt play a pivotal role in increased cardiovascular morbidity and mortality worldwide current clinical efforts are mainly focused on the diagnosis and treatment of myocardial infarction in this book we provide epidemiological data on myocardial infarction and atherosclerotic cardiovascular disease current diagnostic biochemical tests and management strategies a specific patient group children experiencing myocardial infarction is also addressed current advancements in the management of myocardial infarction have decreased the morbidity and mortality from atherosclerotic cardiovascular disease and especially myocardial infarction however further progress can be achieved by the prevention of atherosclerotic processes by focusing on the early stages of the disease

Angiography 2019-06-19 the quarterly review of distance education is a rigorously refereed journal publishing articles research briefs reviews and editorials dealing with the theories research and practices of distance education the quarterly review publishes articles that utilize various methodologies that permit generalizable results which help guide the practice of the field of distance education in the public and private sectors the quarterly review publishes full length manuscripts as well as research briefs editorials reviews of programs and scholarly works and columns the quarterly review defines distance education as institutionally based formal education in which the learning group is separated and interactive technologies are used to unite the learning group

Quarterly Review of Distance Education 2021-10-01 1 aids professionals in meeting an increasing demand for more sustainable materials which are biodegradable as nanomaterials meet these criteria 2 monitors the impact of organic nanofillers in promoting polymer circular economy 3 discusses computational studies on the effect of nanofillers on polymer matrices 4 looks at properties of nanofillers including the mechanical thermal electrical optical and magnetic properties

Area Handbook for the Hashemite Kingdom of Jordan 1969 p this book contains select papers from the international conference on geotechnical engineering iraq discussing the challenges opportunities and problems of application of geotechnical engineering in projects the contents cover a wide spectrum of themes in geotechnical engineering including but not limited to sustainability geotechnical engineering modeling of foundations slope stability seismic analysis soil mechanics construction materials and construction management of projects this volume will prove a valuable resource for practicing engineers and researchers in the field of geotechnical engineering structural engineering and construction and management of projects

Nanofillers 2023-08-30 advanced processing properties and applications of starch and other bio based polymers presents the latest cutting edge research into the processing and applications of bio based polymers for novel industrial applications across areas including biomedical and electronics the book is divided into three sections covering processing and manufacture properties and applications throughout the book key aspects of sustainability are considered including improved utilization of available natural resources sustainable design possibilities cleaner production processes and waste management focuses on starch based polymers examining the latest advances in processing and

applications with this valuable category of biopolymer highlights industrial sustainability considerations at all steps of the process including when sourcing materials designing and producing products and dealing with waste supports the processing and development of starch and other bio based polymers with enhanced functionality for advanced applications

Modern Applications of Geotechnical Engineering and Construction 2020-12-21 dynamics of civil structures volume 2 proceedings of the 38th imac a conference and exposition on structural dynamics 2020 the second volume of eight from the conference brings together contributions to this important area of research and engineering the collection presents early findings and case studies on fundamental and applied aspects of the dynamics of civil structures including papers on structural vibration humans structures innovative measurement for structural applications smart structures and automation modal identification of structural systems bridges and novel vibration analysis sensors and control

Advanced Processing, Properties, and Applications of Starch and Other Bio-based Polymers 2020-07-30 this book reviews efforts to produce chemicals and fuels from forest and plant products agricultural residues and more algae can potentially capture solar energy and atmospheric co2 the book details needed research and legislative initiatives

Bioethics Amidst the COVID-19 Pandemic 2022-01-13 until recently engineering materials could be characterised successfully using relatively simple testing procedures as materials technology advances interest is growing in materials possessing complex meso micro and nano structures which to a large extent determine their physical properties and behaviour the purposes of materials modelling are many optimisation investigation of failure simulation of production processes to name a few modelling and characterisation are closely intertwined increasingly so as the complexity of the material increases characterisation in essence is the connection between the abstract material model and the real world behaviour of the material in question characterisation of complex materials therefore may require a combination of experimental techniques and computation this book contains papers from the fourth international conference on computational methods and experiments in materials characterisation which brought researchers who use computational methods those who perform experiments and of course those who do both in all areas of materials characterisation to discuss their recent results and ideas in order to foster the multidisciplinary approach that has become necessary for the study of complex phenomena

Nanocellulose-Reinforced Thermoplastic Starch Composites 2023-10-02 this is the fifth and last volume representing the proceedings of the international conference on water resources management in arid regions held march 23rd 27th 2002 in kuwait this book discusses major aspects of hydrology and water resources it presents papers on important aspects of surface water and groundwater hydrology including drought tendencies regional flood frequency analysis urban storm drainage with curb opening inlets isotopic investigations for lakes hydrologic and sediment transport modeling groundwater exploration using remote sensing and gis origin and recharge rates of alluvial ground waters stormwater and groundwater management and considerations for stochastic finite element in geostatistics and modeling papers on water quality supplement the discussion

Dynamics of Civil Structures, Volume 2 2020-09-22 volume is indexed by thomson reuters cpci s was these proceedings comprise fully refereed papers presented at the conference the main conference theme was mechanical and aerospace engineering and the main goal of the event was to provide an international scientific forum for the exchange of new ideas in a number of fields and for in depth discussions with peers from around the world core areas of mechanical and aerospace engineering are covered together with multidisciplinary interdisciplinary research and applications thus making the work an excellent guide to those topics

Algal Biorefineries 2013-10-01 organizations are showing a remarkable interest in realizing knowledge management technologies and

processes to adopt knowledge management as part of their overall strategy however even with the current advancement in technology few organizations are entirely capable of developing critical organizational knowledge to achieve improved performance technological innovations in knowledge management and decision support is a vital research publication that examines different knowledge management areas for organizational competitiveness survival and effectiveness it also provides cutting edge research techniques in related optimization methods and other automated techniques in real world processes featuring a broad range of topics such as enterprise resource planning neural networks and image segmentation this book is a critical resource for managers it specialists healthcare and social sciences professionals engineers academicians and researchers seeking research on effective knowledge management systems

Materials Characterisation IV 2009 the achievements and biographical details of nearly 1 500 key researchers and practitioners in the fields of computational mechanics applied mathematics computer science artificial intelligence aerospace aeronautical chemical civil environmental mechanical and structural engineering are included in this directory

Hydrology and Water Resources 2020-08-18 kenaf fiber is gaining attention as an alternative reinforcement for composite products due to low cost reduced environmental impact and attractive mechanical properties kenaf fibers and composites covers the breadth of these exciting materials from raw material preparation to application in a variety of products it discusses fiber characterization and properties how to prepare kenaf based composites and design manufacturing and applications it also covers hybrid fiber composites kenaf fiber thermosetting composites kenaf fiber thermoplastic composites kenaf fibers in various lengths and forms and arrangements such as particulates continuous roving and woven fabrics cellulose based kenaf composites and kenaf fiber filled biopolymer composites are presented

Mechanical and Aerospace Engineering, ICMAE2011 2011-10-24 artificial neural networks anns present many benefits in analyzing complex data in a proficient manner as an effective and efficient problem solving method anns are incredibly useful in many different fields from education to medicine and banking to engineering artificial neural networks are a growing phenomenon as more realize the plethora of uses and benefits they provide due to their complexity it is vital for researchers to understand ann capabilities in various fields the research anthology on artificial neural network applications covers critical topics related to artificial neural networks and their multitude of applications in a number of diverse areas including medicine finance operations research business social media security and more covering everything from the applications and uses of artificial neural networks to deep learning and non linear problems this book is ideal for computer scientists it specialists data scientists technologists business owners engineers government agencies researchers academicians and students as well as anyone who is interested in learning more about how artificial neural networks can be used across a wide range of fields

Technological Innovations in Knowledge Management and Decision Support 2018-07-27 the volume deals with sustainability transitions which are transformations of major socio technical systems of provision and use in areas such as energy water mobility and food towards more sustainable ways of production and consumption the book provides insights of world conference on smart trends in systems security and sustainability ws4 2017 which is divided into different sections such as smart it infrastructure for sustainable society smart management prospective for sustainable society smart secure systems for next generation technologies smart trends for computational graphics and image modelling and smart trends for biomedical and health informatics the book volume contains 31 high quality papers presented at ws4 2017

Who's Who in Computational Science and Engineering 2005-09 this book offers an up to date and comprehensive review of modern antenna systems and their applications in the fields of contemporary wireless systems it constitutes a useful resource of new material including

stochastic versus ray tracing wireless channel modeling for 5g and v2x applications and implantable devices chapters discuss modern metalens antennas in microwaves terahertz and optical domain moreover the book presents new material on antenna arrays for 5g massive mimo beamforming finally it discusses new methods devices and technologies to enhance the performance of antenna systems

Machine Learning Applications in Civil Engineering 2022-12-16 this book provides profound insights into industrial control system resilience exploring fundamental and advanced topics and including practical examples and scenarios to support the theoretical approaches it examines issues related to the safe operation of control systems risk analysis and assessment use of attack graphs to evaluate the resiliency of control systems preventive maintenance and malware detection and analysis the book also discusses sensor networks and internet of things devices moreover it covers timely responses to malicious attacks and hazardous situations helping readers select the best approaches to handle such unwanted situations the book is essential reading for engineers researchers and specialists addressing security and safety issues related to the implementation of modern industrial control systems it is also a valuable resource for students interested in this area

Kenaf Fibers and Composites 2018-06-14 principles of bacterial detection biosensors recognition receptors and microsystems will cover the up to date biosensor technologies used for the detection of bacteria written by the world s most renowned and learned scientists each in their own area of expertise principles of bacterial detection biosensors recognition receptors and microsystems is the first title to cover this expanding research field

Research Anthology on Artificial Neural Network Applications 2021-07-16 this book covers the recent research advances on the utilization of date palm fibers as a new source of cellulosic fibers that can be used in the reinforcement of polymer composites it discusses the competitive mechanical physical and chemical properties which make date palm fibers stand out as an alternative to other fibers currently used in the natural fiber composites market this volume will be useful to researchers working on natural fiber composites and fiber reinforced composites looking to develop green biodegradable and sustainable components for application in automotive marine aerospace construction wind energy and consumer goods sectors

Smart Trends in Systems, Security and Sustainability 2017-12-30 this book is about the way that professionals in archaeology and in other sectors of heritage interact with a range of stakeholder groups communities and the wider public whilst these issues have been researched and discussed over many years and in many geographical contexts the debate seems to have settled into a comfortable stasis wherein it is assumed that all that can be done by way of engagement has been done and there is little left to achieve in some cases such engagement is built on legislation or codes of ethics and there can be little doubt that it is an important and significant aspect of heritage policy this book is different however because it questions not so much the motivations of heritage professionals but the nature of the engagement itself the extent to which this is collaborative or contested and the implications this has for the communities concerned furthermore in exploring these issues in a variety of contexts around the world it recognises that heritage provides a source of engagement within communities that is separate from professional discourse and can thus enable them to find voices of their own in the political processes that concern them and affect their development identity and well being this book was published as a special issue of the international journal of heritage studies

Antenna Systems 2022-04-28 this book presents a collection of high quality peer reviewed research papers from the 7th international conference on information system design and intelligent applications india 2022 held at bvit hyderabad college of engineering for women hyderabad telangana india from february 25 to 26 2022 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 and cognitive computing

Recent Developments on Industrial Control Systems Resilience 2019-10-05 handbook of materials failure analysis with case studies from the electronics industries examines the reasons materials fail in certain situations including material defects and mechanical failure as a result of various causes the book begins with a general overview of materials failure analysis and its importance it then proceeds to discussions on the types of failure analysis specific tools and techniques and an analysis of materials failure from various causes as failure can occur for several reasons including materials defects related failure materials design related failure or corrosion related failures the topics covered in this comprehensive source are an important tool for practitioners provides the most up to date and balanced coverage of failure analysis combining foundational knowledge and current research on the latest developments and innovations in the field offers an ideal accompaniment for those interested in materials forensic investigation failure of materials static failure analysis dynamic failure analysis and fatigue life prediction presents compelling new case studies from key industries to demonstrate concepts

Public perspectives on health and wellbeing 2023-08-23 composites in biomedical applications presents a comprehensive overview on recent developments in composites and their use in biomedical applications it features cutting edge developments to encourage further advances in the field of composite research highlights a completely new research theme in polymer based composite materials outlines a broad range of different research fields including polymer and natural fiber reinforcement used in the development of composites for biomedical applications discusses advanced techniques for the development of composites and biopolymer based composites covers fatigue behavior conceptual design in ergonomics design application tissue regeneration or replacement and skeletal bone repair of polymer composites details the latest developments in synthesis preparation characterization material evaluation and future challenges of composite applications in the biomedical field this book is a comprehensive resource for advanced students and scientists pursuing research in the broad fields of composite materials polymers organic or inorganic hybrid materials and nano assembly

Principles of Bacterial Detection: Biosensors, Recognition Receptors and Microsystems 2008-09-03

The Hashemite Kingdom of Jordan 1953

Date Palm Fiber Composites 2020-11-11

Heritage and Community Engagement 2013-09-13

Intelligent System Design 2022-10-27

Handbook of Materials Failure Analysis 2019-10-22

Composites in Biomedical Applications 2020-09-26

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