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Sustainable Waste Management: Policies and Case Studies Hybrid Power Advances in Environment Engineering and Management Electronics in Advanced Research Industries Emerging Technologies for Health and Medicine Advances in Solid and Hazardous Waste Management Risk Analysis IX Techno-societal 2022 Power Systems Control and Reliability Industry 4.0 and Climate Change WRAP THE SCRAP WITH DMAIC: Strategic Deployment of Six Sigma in Indian Foundry SMEs Minerals in Africa Advancement of Science and Technology Development of Field Propagation Model for Urban Area Circular Economy and Fly Ash Management Soil Science Energy and Sustainability VII Sustainable Construction Materials Nature-Inspired Design of Hybrid Intelligent Systems Social Media Strategies for Dynamic Library Service Development Advances in Architecture, Engineering and Technology Internet of Things (IoT) Technologies for HealthCare Thermal Energy Systems ICCCE 2019 Advances in SIIoT (Social Internet of Things) Transportation Research Proceedings of the International Conference on Research and Innovations in Mechanical Engineering Research Anthology on Bioinformatics, Genomics, and Computational Biology Cognitive Computing and Information Processing Innovations in Bio-Inspired Computing and Applications Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications TRIK JITU MENINGKATKAN KINERJA UMKM (Tata Kelola, Motivasi dan Perilaku Inovatif) Computer, Communication and Electrical Technology Emerging Trends in Intelligent Systems & Network Security Healthcare Systems and Health Informatics Nature-Inspired Algorithms and Applications Smart Technologies for Energy and Environmental Sustainability Latest Developments in Civil Engineering Proceedings of 2nd International Conference on Communication, Computing and Networking Risk Detection and Cyber Security for the Success of Contemporary Computing

Sustainable Waste Management: Policies and Case Studies

2019-06-21

the book presents high quality research papers from the seventh international conference on solid waste management iconswm 2017 held at professor jayashankar telangana state agricultural university hyderabad on december 15 17 2017 the conference an official side event of the high level intergovernmental eighth regional 3r forum in asia and the pacific aimed to generate scientific inputs into the policy consultation of the forum co organized by the uncrd undesa moefcc india mould india and moej japan presenting research on solid waste management from more than 30 countries the book is divided into three volumes and addresses various issues related to innovation and implementation in sustainable waste management segregation collection transportation of waste treatment technology policy and strategies energy recovery life cycle analysis climate change research and business opportunities

Hybrid Power

2021-02-18

hybrid energy systems integrate multiple sources of power generation storage and transport mechanisms and can facilitate increased usage of cleaner renewable and more efficient energy sources hybrid power generation storage and grids discusses hybrid energy systems from fundamentals through applications and discusses generation storage and grids highlights fundamentals and applications of hybrid energy storage discusses use in hybrid and electric vehicles and home energy needs discusses issues related to hybrid renewable energy systems connected to the utility grid describes the usefulness of hybrid microgrids and various forms of off grid energy such as mini grids nanogrids and stand alone systems covers the use of

hybrid renewable energy systems for rural electrification around the world discusses various forms and applications of hybrid energy systems hybrid energy storage hybrid microgrids and hybrid off grid energy systems details simulation and optimization of hybrid renewable energy systems this book is aimed at advanced students and researchers in academia government and industry seeking a comprehensive overview of the basics technologies and applications of hybrid energy systems

Advances in Environment Engineering and Management

2021-09-02

this book presents the proceedings of the first national conference on sustainable management of environment natural resource through innovation in science and technology smtst2020 the book highlights the latest development and innovations in the fields of sustainability natural resource management ecology and its environmental fields geosciences and geology atmospheric sciences sustainability climate change and extreme weather global warming and global change the effect of climate change on the ecosystem environment and pollution as well as putting a strong emphasis on the multidisciplinary studies

Electronics in Advanced Research Industries

2021-09-30

electronics in advanced research industries a one of a kind examination of the latest developments in machine control in electronics in advanced research industries industry 4 0 to industry 5 0 advances accomplished electronics researcher and engineer alessandro massaro delivers a comprehensive exploration of the latest ways in which people have achieved machine

control including automated vision technologies advanced electronic and micro nano sensors advanced robotics and more the book is composed of nine chapters each containing examples and diagrams designed to assist the reader in applying the concepts discussed within to common issues and problems in the real world combining electronics and mechatronics to show how they can each be implemented in production line systems the book presents insightful new ways to use artificial intelligence in production line machines the author explains how facilities can upgrade their systems to an industry 5.0 environment electronics in advanced research industries industry 4.0 to industry 5.0 advances also provides a thorough introduction to the state of the art in a variety of technological areas including flexible technologies scientific approaches and intelligent automatic systems comprehensive explorations of information technology infrastructures that support industry 5.0 facilities including production process simulation practical discussions of human machine interfaces including mechatronic machine interface architectures integrating sensor systems and machine to machine m2m interfaces in depth examinations of internet of things iot solutions in industry including cloud computing iot perfect for professionals working in electrical industry sectors in manufacturing production line manufacturers engineers and members of r d industry teams electronics in advanced research industries industry 4.0 to industry 5.0 advances will also earn a place in libraries of technicians working in the process industry

Emerging Technologies for Health and Medicine

2018-11-12

with the current advances in technology innovation the field of medicine and healthcare is rapidly expanding and as a result many different areas of human health diagnostics treatment and care are emerging wireless technology is getting faster and 5g mobile technology allows the internet of medical things iomt to greatly improve patient care and more effectively

prevent illness from developing this book provides an overview and review of the current and anticipated changes in medicine and healthcare due to new technologies and faster communication between users and devices this groundbreaking book presents state of the art chapters on many subjects including a review of the implications of vr and ar healthcare applications a review of current augmenting dental care an overview of typical human computer interaction hci that can help inform the development of user interface designs and novel ways to evaluate human behavior to responses in virtual reality vr and other new technologies a review of telemedicine technologies building empathy in young children using augmented reality ai technologies for mobile health of stroke monitoring rehabilitation robotics control mobile doctor brain ai app an artificial intelligence mobile cloud computing tool development of a robotic teaching aid for disabled children training system design of lower limb rehabilitation robot based on virtual reality

Advances in Solid and Hazardous Waste Management

2017-08-03

this book presents reviews examples and case studies of innovative applications in solid and hazardous waste management the economics of waste management have since become a significant research area in their own right and two chapters address these issues in addition dedicated chapters cover specific categories of waste such as biomedical and institutional waste plastics and e waste the book subsequently discusses newer analytical methods like sem edx xrd and optical microscopy along with selected older methods for sampling and characterizing different types of waste the various applications of mathematical tools like linear optimization various software models like wiscleach and drastic and tools like remote sensing and gis are illustrated in many of the chapters lastly since composting is one of the most popular treatment methods for managing the organic component of municipal solid waste the book

provides an overview of composting and the fundamentals of microbiology that are essential to understanding waste related biological processes the book was primarily written for students and practitioners in the field who are already familiar with the basics all chapters were prepared by practicing experts and scholars in the field and are intended to help readers better understand and apply these principles and practices in their own endeavours key topics covered in the book the circular economy and the economics of solid waste management various remote sensing and gis applications for managing municipal solid waste coal fires in mines changes in land use and land cover in industrial areas etc treatment and management of different types of solid waste institutional including biomedical residential e waste plastic and ash from thermal power plants sampling and characterization of municipal waste and compost fundamentals of microbiology overview of environmental regulations especially those pertaining to solid and hazardous waste management

Risk Analysis IX

2014-06-04

containing papers presented at the 9th international conference on computer simulation in risk analysis and hazard mitigation this book covers a series of important topics of current research interests and many practical applications it is concerned with all aspects of risk management and hazard mitigation associated with both natural and anthropogenic hazards the analysis and management of risk and the mitigation of hazards is of fundamental importance to planners and researchers around the world we live in an increasingly complex society with the potential for disasters on a worldwide scale natural hazards such as floods earthquakes landslides fires and others have always affected human societies man made hazards however played a comparatively small role a few centuries ago until the risk of catastrophic events started to increase due to the rapid growth of new technologies the interaction of natural and

anthropogenic risks adds to the complexity of the problem topics covered include risk assessment risk management hazard prevention management and control early warning systems risk mapping natural hazards disaster management vulnerability assessment health risk debris flow and flood hazards case studies climate change safety and security evacuation simulation and design political and economic vulnerability

Techno-societal 2022

2023-10-24

this book divided into two volumes originates from techno societal 2022 the 4th international conference on advanced technologies for societal applications maharashtra india the conference brings together faculty members from various engineering colleges to solve relevant regional problems in india under the guidance of eminent researchers from various reputed organizations the focus of volume i is on technologies that help develop and improve society with particular emphasis on sensor and ict based technologies for the betterment of people technologies for agriculture and healthcare micro and nano technological applications as well as artificial intelligence and big data volume ii delves into commercially successful rural and agricultural technologies engineering for rural development ict based societal applications manufacturing and fabrication processes for societal applications material science composites and sensor image and data driven societal technologies this conference aims to provide a platform for innovators to share their best practices or products developed to solve specific local problems which in turn may inspire other researchers to solve similar problems in their regions additionally technologies proposed by expert researchers may find applications in different regions making it a multidisciplinary platform for reporting innovations at different levels in science engineering and technology

Power Systems Control and Reliability

2020-03-13

focusing on power systems reliability and generating unit commitments which are essential in the design and evaluation of the electric power systems for planning control and operation this informative volume covers the concepts of basic reliability engineering such as power system spinning reserve types of load curves and their objectives and benefits the electric power exchange and the system operation constraints the author explains how the probability theory plays an important role in reliability applications and discusses the probability applications in electric power systems that led to the development of the mathematical models that are illustrated in the book the algorithms that are presented throughout the chapters will help researchers and engineers to implement their own suitable programs where needed and will also be valuable for students the artificial neural networks and fuzzy logic systems are discussed and a number of load estimation models are built for some cases where their formulas are developed a number of developed models are presented including the kronecker techniques fourth order runge kutta system multiplication method or adams method and components with different connections and different distributions are presented a number of examples are explained showing how to build and evaluate power plants

Industry 4.0 and Climate Change

2022-10-17

at present both industry 4.0 and industrial engineering management developments are reshaping the industrial sector worldwide industry 4.0 and sustainability are considered as the crucial emerging trends in industrial production systems the resulting transformations are changing

production modes from traditional to digital intelligent and decentralized it is expected that industry 4.0 will help drive sustainability in industries thanks to the implementation of advanced technology and a move towards social sustainability this book reflects on the consequences of the transition to industry 4.0 for climate change the book presents a systemic overview of the current negative impacts of digitization on the environment and showcases a new outline of the energy domain and expected changes in environmental pollution levels under industry 4.0 it also analyzes the ecological consequences of the growth and development of industry 4.0 and considers industry 4.0 as an alternative to fighting climate change in the sense of shifting the global community's attention from environmental protection to consolidation of the digital economy this book will be of interest to academicians and practitioners in the fields of climate change and development of industry 4.0 and it will contribute to national economic policies for fighting climate change and corporate strategies of sustainable development under industry 4.0

WRAP THE SCRAP WITH DMAIC: Strategic Deployment of Six Sigma in Indian Foundry SMEs

2015-06

six sigma approach is generally employed to improve the sigma level of manufacturing or service processes by reducing their deviations and defects six sigma provides the opportunity to eliminate mistakes improve morale and save money doing things right in first time and keeping them consistent is the only idea behind six sigma its fundamental objective is to achieve customer satisfaction with continuous improvement in quality and productivity mostly we are emphasizing on various tools or techniques being used during dmaic projects and almost ignore the procedure to execute different phases of the six sigma project this book provides

unique step by step methodologies to perform define measure analyse improve and control phases of a six sigma project respectively an empirical investigation has been carried out in a make to order type medium sized foundry and six sigma is successfully implemented by decreasing the scrap of piston castings appreciably the book focuses on scrap reduction specifically in indian foundries and tries to find out the reasons of low productivity index it also tends to shatter the various phobias of smes in context of six sigma by validating the compatibility of proposed methodologies through a successful case study in indian foundry environments

Minerals in Africa

2020-08-10

africa s dire need to industrialize is universally acknowledged and it is evident that the continent s vast mineral resources can catalyze that industrialization this requires the promotion of local beneficiation and value addition of minerals to yield materials on which modern africa s industry and society can rely this book is therefore about transforming africa s comparative advantages in minerals into the continent s competitive edge regarding materials mineral beneficiation and value addition form the basis and provide opportunities for mineral driven africa s industrialization the scope of the book is three fold with inter connected relationships information technical and policy oriented it will be a useful reference material for mining undergraduate students on beneficiation and value addition of each of the minerals found in africa the book while presenting a broad overview of beneficiation and value addition of africa s minerals provides crucial starting material for postgraduate research students and r d institutions who wish to delve into more advanced methods of extraction and utilization of mineral derived materials that are in africa for the purpose of industrialization of the continent

Advancement of Science and Technology

2023-07-07

this book presents the latest developments innovations and sustainable technologies in materials and energy covering various research methods including numerical and experiment analysis materials related topics focus on construction energy and other material replacements for various applications energy related topics covered include applications of solar technology wind energy analysis the book provides state of the art research on the efforts being made toward sustainability in developing countries and will be a valuable reference for researchers engineers industry professionals graduate students and related practitioners

Development of Field Propagation Model for Urban Area

2017-03-08

wireless communication is one of the most dynamic and vibrant areas of technology development in the communication field today it has been found that severe climatic conditions disturb the propagation of electromagnetic signals at higher frequencies greater than 30 mhz the disturbance is mainly due to molecular absorption by oxygen for frequencies ranging between 60 and 118 ghz and due to water vapour in 22 183 and 325 ghz bands rain and fog has the most significant impact since the size of the rain drops is of the order of the wavelength of the transmitted signal this results in energy absorption by the rain drops themselves and as a secondary effect energy is scattered by the drops the frequency selective absorption characteristics of the atmosphere can be approximated by a transfer function in most of the practical channels when the signal propagates through the atmosphere the effect of many factors on the signal has to be considered along with the free space propagation channel

assumption the main objective of this study is therefore to find out whether and how the different climatic conditions are influencing radio wave propagation in gsm frequency bands in general and in narnaul haryana india in particular to carry out this investigation the records of radio wave propagation along with path loss during different climatic conditions have been analyzed on the strength of these analyses a propagation path loss model has been developed by proposing suitable correction factors due to different climatic conditions the validation of this developed path loss model has been verified by taking reference models and by applying practically in different urban areas the effect of these climatic conditions on the link budget has also been analyzed

Circular Economy and Fly Ash Management

2019-10-25

this book presents a number of innovative uses of fly ash fly ash is a fine powder that is a byproduct of burning pulverized coal in thermal power plants it is a pozzolan a substance containing aluminous and siliceous material that when mixed with lime and water forms a compound similar to portland cement though fly ash was a problem in terms of its disposal it now has a variety of uses such as a prime material in blocks bricks and pcc paving and further applications are being investigated as such the recovery and reuse of fly ash wastes plays an important role in the implementation of the circular economy concept featuring selected high quality research papers presented at iconswm 2018 the book provides valuable insights for the recycling industries power plants researchers and governments

Soil Science

2022-12-14

soil science emerging technologies global perspectives and applications describes recent research that illustrates the universal importance of understanding soil and soil s relationship to environmental stewardship and food security research supporting emerging technologies provides abilities to discern key soil attributes that influence soil behavior and development understand soil biology to create sustainable land management and sequester carbon to partially negate climate change soil science is an interdisciplinary field of inquiry that must consider resource allocation and social needs to foster a culture that protects and secures not only soil health but also water and air quality chapters in this book reflect the diversity of modern thinking within the discipline of soil science but collectively illustrate that global sustainability of food the environment and biological diversity are critical to future generations

Energy and Sustainability VII

2017-12-11

containing papers presented at the 7th international conference on energy and sustainability this volume includes collaborative research between different disciplines including materials energy networks new energy resources storage solutions waste to energy systems smart grids and many other related subjects energy production and distribution matters as well as the need to respond to the modern world s dependency on conventional fuels are topics of growing importance the use of fossil fuels has generated an increasing amount of interest in renewable energy resources and the search for maintainable energy policies energy policies and

management are of primary importance to achieve the development of sustainability and need to be consistent with recent advances in energy production and distribution challenges lie as much in the conversion from renewable energies such as wind and solar to useful forms like electricity heat and fuel at an acceptable cost including environmental damage as in the integration of these resources into an existing infrastructure a range of topics are covered including energy policies renewable energy resources sustainable energy production environmental risk management green buildings energy storage energy management biomass and biofuels waste to energy processing of oil and gas co2 capturing and management pipelines energy efficiency smart grids energy and transport case studies

Sustainable Construction Materials

2017-10-18

sustainable construction materials municipal incinerated bottom ash discusses the global use of virgin aggregates and co2 polluter portland cement given the global sustainability agenda much of the demand for these two sets of materials can be substantially reduced through the appropriate use of waste materials thereby conserving natural resources energy and co2 emissions realistically this change can only be realized and sustained through engineering ingenuity and new concepts in design although a great deal of research has been published over the last 50 years it remains fragmented and ineffective this book develops a single global knowledge base encouraging greater use of selected waste streams the focus of massive systematic reviews is to encourage the uptake of recycled secondary materials rsm by the construction industry and guide researchers to recognize what is already known regarding waste provides an extensive source of valuable database information supported by an exhaustive list of globally based published literature over the last 40 50 years offer an analysis evaluation repackaging and modeling of existing knowledge on sustainable construction practices provides

a wealth of knowledge for use in many sectors relating to the construction profession

Nature-Inspired Design of Hybrid Intelligent Systems

2016-12-08

this book highlights recent advances in the design of hybrid intelligent systems based on nature inspired optimization and their application in areas such as intelligent control and robotics pattern recognition time series prediction and optimization of complex problems the book is divided into seven main parts the first of which addresses theoretical aspects of and new concepts and algorithms based on type 2 and intuitionistic fuzzy logic systems the second part focuses on neural network theory and explores the applications of neural networks in diverse areas such as time series prediction and pattern recognition the book s third part presents enhancements to meta heuristics based on fuzzy logic techniques and describes new nature inspired optimization algorithms that employ fuzzy dynamic adaptation of parameters while the fourth part presents diverse applications of nature inspired optimization algorithms in turn the fifth part investigates applications of fuzzy logic in diverse areas such as time series prediction and pattern recognition the sixth part examines new optimization algorithms and their applications lastly the seventh part is dedicated to the design and application of different hybrid intelligent systems

Social Media Strategies for Dynamic Library Service Development

2014-12-31

as social technologies continue to evolve it is apparent that librarians and their clientele would benefit through participation in the digital social world while there are benefits to implementing these technologies many libraries also face challenges in the integration and usage of social media social media strategies for dynamic library service development discusses the integration of digital social networking into library practices highlighting the advantages and challenges faced by libraries in the application of social media this publication is a critical reference source for professionals and researchers working within the fields of library and information science as well as practitioners and executives interested in the utilization of social technologies in relation to knowledge management and organizational development

Advances in Architecture, Engineering and Technology

2022-03-17

this book examines a range of subjects with a specific focus on architectural and technological advancements architecture is the constant innovation in designing for high efficiency in the performance of buildings in terms of planning construction and energy while maintaining creativity in its form moreover the field of architecture goes hand in hand with that of technology nowadays engineering technology has to cope with the rapid industrialization and urbanization seen in most countries furthermore creative design and construction practices are challenging tasks to the architects and engineers to meet the ever growing demands of society therefore this book on advances in engineering science and architectural design is provided to cover a wide range of topics in architecture engineering and technology

Internet of Things (IoT) Technologies for HealthCare

2018-02-16

this book constitutes the proceedings of the fourth international conference on internet of things iot technologies for healthcare healthyiot 2017 held in angers france in october 2017 the iot as a set of existing and emerging technologies notions and services can provide many solutions to delivery of electronic healthcare patient care and medical data management the 17 revised full papers presented were carefully reviewed and selected from 23 submissions the papers cover topics such as healthcare support for the elderly real time monitoring systems security safety and communication smart homes and smart caring environments intelligent data processing and predictive algorithms in e health emerging e health iot applications signal processing and analysis the smartphones as a healthy thing machine learning and deep learning and cloud computing

Thermal Energy Systems

2023-06-30

the text provides in depth knowledge about recent advances in solar collector systems photovoltaic systems the role of thermal energy systems in buildings phase change materials geothermal energy biofuels and thermal management systems for evs in social and industrial applications it further aims toward the inclusion of innovation and implementation of strategies for co2 emission reduction through the reduction of energy consumption using conventional sources this book presents the latest advances in the field of thermal energy storage solar energy development geothermal energy and hybrid energy applications for green development highlights the importance of innovation and implementation of strategies for co2

emission reduction through the reduction of energy consumption using sustainable technologies and methods discusses design development life cycle assessment modelling and simulation of thermal energy systems in detail synergize exploration related to the various properties and functionalities through extensive theoretical and numerical modelling present in the energy sector explores opportunities challenges future perspectives and approaches toward gaining sustainability through renewable energy resources the text discusses the fundamentals of thermal energy and its applications in a comprehensive manner it further covers advancements in solar thermal and photovoltaic systems the text highlights the contribution of geothermal energy conversion systems to sustainable development it showcases the design and optimization of ground source heat pumps for space conditioning and presents modelling and simulation of the thermal energy systems for design optimization it will serve as an ideal reference text for senior undergraduate graduate students and academic researchers in the fields of mechanical engineering environmental engineering and energy engineering

ICCCE 2019

2019-08-02

this book is a collection research papers and articles from the 2nd international conference on communications and cyber physical engineering iccce 2019 held in pune india in feb 2019 discussing the latest developments in voice and data communication engineering cyber physical systems network science communication software image and multimedia processing research and applications as well as communication technologies and other related technologies it includes contributions from both academia and industry

Advances in SIoT (Social Internet of Things)

2023-04-19

the social internet of things siot has become a hot topic in academic research it employs the theory of social networks into the different levels of the internet of things iots and has brought new possibilities for the development of iots essentially the siot is a subset of iots it uses intelligent hardware and humans as the node a social network as the organization type the social relationship between things things and humans and between humans formatting research methods and models with social network characteristics to realize the connection service and application of the iots moreover siot is a form of realization of technology architecture and application of the iots using social network research methods it further promotes the integration between real world and virtual cyberspace contributes the realization of the iots expands the research scope of the social networking and provides a new solution for the specific problems of the iots consequently there is a tremendous need for researchers to have a comprehensive knowledge of the advances in siot this special issue is soliciting scientific research papers that can present a snapshot of the latest research status of siot

Transportation Research

2024-01-22

this book is a collection of selected research papers from the 14th conference of the transportation planning and implementation methodologies for developing countries tpmdc it covers the broad area of transportation planning and policy pavement design and engineering emerging technologies in transportation traffic management operations and safety and sustainable mobility in transportation the book aims to provide deeper understanding of the

transportation issues solutions and learnings from the implemented solutions this book will be of best interest for academicians researchers policy makers and practitioners

Proceedings of the International Conference on Research and Innovations in Mechanical Engineering

2014-05-05

this book comprises the proceedings of international conference on research and innovations in mechanical engineering icrime 2013 organized by guru nanak dev engineering college ludhiana with support from aicte teqip dst and ptu jalandhar this international conference served as a premier forum for communication of new advances and research results in the fields of mechanical engineering the proceedings reflect the conference s emphasis on strong methodological approaches and focus on applications within the domain of mechanical engineering the contents of this volume aim to highlight new theoretical and experimental findings in the fields of mechanical engineering and closely related fields including interdisciplinary fields such as robotics and mechatronics

Research Anthology on Bioinformatics, Genomics, and Computational Biology

2024-03-19

in the evolving environment of bioinformatics genomics and computational biology academic scholars are facing a challenging challenge keeping informed about the latest research trends and findings with unprecedented advancements in sequencing technologies computational

algorithms and machine learning these fields have become indispensable tools for drug discovery disease research genome sequencing and more as scholars strive to decode the language of dna predict protein structures and navigate the complexities of biological data analysis the need for a comprehensive and up to date resource becomes paramount the research anthology on bioinformatics genomics and computational biology is a collection of a carefully curated selection of chapters that serves as the solution to the pressing challenge of keeping pace with the dynamic advancements in these critical disciplines this anthology is designed to address the informational gap by providing scholars with a consolidated and authoritative source that sheds light on critical issues innovative theories and transformative developments in the field it acts as a single reference point offering insights into conceptual methodological technical and managerial issues while also providing a glimpse into emerging trends and future opportunities

Cognitive Computing and Information Processing

2018-04-06

this book constitutes the refereed proceedings of the third international conference on cognitive computing and information processing ccip 2017 held in bengaluru india in december 2017 the 43 revised full papers presented were carefully reviewed and selected from 130 submissions the papers are organized in topical sections on cognitive computing in medical information processing cognitive computing and its applications cognitive computing in video analytics

Innovations in Bio-Inspired Computing and Applications

2015-12-14

this volume contains the papers presented during the 6th international conference on innovations in bio inspired computing and applications ibica 2015 which was held in kochi india during december 16 18 2015 the 51 papers presented in this volume were carefully reviewed and selected the 6th international conference ibica 2015 has been organized to discuss the state of the art as well as to address various issues in the growing research field of bio inspired computing which is currently one of the most exciting research areas and is continuously demonstrating exceptional strength in solving complex real life problems the volume will be a valuable reference to researchers students and practitioners in the computational intelligence field

Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications

2019-08-21

advances in engineering materials structures and systems innovations mechanics and applications comprises 411 papers that were presented at semc 2019 the seventh international conference on structural engineering mechanics and computation held in cape town south africa from 2 to 4 september 2019 the subject matter reflects the broad scope of semc conferences and covers a wide variety of engineering materials both traditional and innovative and many types of structures the many topics featured in these proceedings can be classified into six broad categories that deal with i the mechanics of materials and fluids elasticity plasticity flow

through porous media fluid dynamics fracture fatigue damage delamination corrosion bond creep shrinkage etc ii the mechanics of structures and systems structural dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii the numerical modelling and experimental testing of materials and structures numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv innovations and special structures nanostructures adaptive structures smart structures composite structures bio inspired structures shell structures membranes space structures lightweight structures long span structures tall buildings wind turbines etc v design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber glass vi the process of structural engineering conceptualisation planning analysis design optimization construction assembly manufacture testing maintenance monitoring assessment repair strengthening retrofitting decommissioning the semc 2019 proceedings will be of interest to civil structural mechanical marine and aerospace engineers researchers developers practitioners and academics in these disciplines will find them useful two versions of the papers are available short versions intended to be concise but self contained summaries of the full papers are in this printed book the full versions of the papers are in the e book

TRIK JITU MENINGKATKAN KINERJA UMKM (Tata Kelola, Motivasi dan Perilaku Inovatif)

2024-04-23

buku ini dihadirkan sebagai bahan referensi bagi praktisi akademisi dan mahasiswa yang sedang mempelajari tentang trik jitu meningkatkan kinerja umkm tata kelola motivasi dan perilaku inovatif

Computer, Communication and Electrical Technology

2017-03-16

the first international conference on advancement of computer communication and electrical technology focuses on key technologies and recent progress in computer vision information technology applications vlsi signal processing power electronics drives and application of sensors transducers etc topics in this conference include computer science this conference encompassed relevant topics in computer science such as computer vision intelligent system networking theory and application of information technology communication engineering to enhance the theory technology of communication engineering accet 2016 highlighted the state of the art research work in the field of vlsi optical communication and signal processing of various data formatting research work in the field of microwave engineering cognitive radio and networks are also included electrical technology the state of the art research topic in the field of electrical instrumentation engineering is included in this conference such as power system stability protection non conventional energy resources electrical drives and biomedical engineering research work in the area of optimization and application in control measurement instrumentation are included as well

Emerging Trends in Intelligent Systems & Network Security

2022-08-31

this book covers selected research works presented at the fifth international conference on networking information systems and security niss 2022 organized by the research center for data and information sciences at the national research and innovation agency brin republic of indonesia and moroccan mediterranean association of sciences and sustainable development

morocco during march 30 31 2022 hosted in online mode in bandung indonesia building on the successful history of the conference series in the recent four years this book aims to present the paramount role of connecting researchers around the world to disseminate and share new ideas in intelligent information systems cyber security and networking technologies the 49 chapters presented in this book were carefully reviewed and selected from 115 submissions they focus on delivering intelligent solutions through leveraging advanced information systems networking and security for competitive advantage and cost savings in modern industrial sectors as well as public business and education sectors authors are eminent academicians scientists researchers and scholars in their respective fields from across the world

Healthcare Systems and Health Informatics

2022-02-21

this book covers the fundamentals of iot and healthcare systems for carrying out system architectures protocols wearable devices and interoperability it explores major challenges in artificial intelligence ai and smart computing in resource constrained iot based applications along with cost energy efficiency and the availability of quality service healthcare systems and health informatics using internet of things explores the role of ai and smart computing in health informatics and healthcare with an emphasis on clinical data management and analysis for precise prediction and prompt action it presents cutting edge tracking monitoring real time assistance and security for iot in healthcare and broadly discusses wearable sensors and iot devices and their role in smart living assistance the book goes on to describe a system model and architecture for a clear picture of energy conservation based iot in healthcare and explains the challenges and opportunities with iot based healthcare industries a study of the threats and impacts along with the need for information security is also included the chapters are written by experts in the field and this book provides a comprehensive description of the

important aspects of iot and health from a beginner to advanced level perspective and is ideal for researchers academicians students persons in industry technologists and entrepreneurs

Nature-Inspired Algorithms and Applications

2021-12-14

nature inspired algorithms and applications the book s unified approach of balancing algorithm introduction theoretical background and practical implementation complements extensive literature with well chosen case studies to illustrate how these algorithms work inspired by the world around them researchers are gathering information that can be developed for use in areas where certain practical applications of nature inspired computation and machine learning can be applied this book is designed to enhance the reader s understanding of this process by portraying certain practical applications of nature inspired algorithms nias specifically designed to solve complex real world problems in data analytics and pattern recognition by means of domain specific solutions since various nias and their multidisciplinary applications in the mechanical engineering and electrical engineering sectors and in machine learning image processing data mining and wireless networks are dealt with in detail in this book it can act as a handy reference guide among the subjects of the 12 chapters are a novel method based on triz to map real world problems to nature problems applications of cuckoo search algorithm for optimization problems performance analysis of nature inspired algorithms in breast cancer diagnosis nature inspired computation in data mining hybrid bat genetic algorithm based novel optimal wavelet filter for compression of image data efficiency of finding best solutions through ant colony optimization techniques applications of hybridized algorithms and novel algorithms in the field of machine learning audience researchers and graduate students in mechanical engineering electrical engineering machine learning image processing data mining and wireless networks will find this book very useful

Smart Technologies for Energy and Environmental Sustainability

2021-11-30

as the application of smart technologies for monitoring environmental activities becomes more widespread there is a growing demand for solutions that can help analyze the risk factors and impacts on the environment by focusing on energy consumption storage and management this book is designed to serve as a knowledge sharing platform focusing on the emerging models architectures and algorithms being developed for smart computational technologies that can lead to efficient energy conservation and environmental sustainability

Latest Developments in Civil Engineering

2023-11-03

this book comprises select proceedings of the international conference on recent advances in civil engineering race 2022 the contents of this book focus on the recent advancements and innovations in the field of civil engineering and various related areas such as design and development of new sustainable and smart building materials performance analysis and simulation of steel structures design and performance optimization of concrete structures structural engineering geotechnical engineering water resources engineering and hydraulics transportation and bridge engineering building services design surveying and remote sensing engineering management and renewable energy this book serves as a useful reference to researchers and professionals in the field of civil engineering

Proceedings of 2nd International Conference on Communication, Computing and Networking

2018-09-07

the book provides insights from the 2nd international conference on communication computing and networking organized by the department of computer science and engineering national institute of technical teachers training and research chandigarh india on march 29 30 2018 the book includes contributions in which researchers engineers and academicians as well as industrial professionals from around the globe presented their research findings and development activities in the field of computing technologies wireless networks information security image processing and data science the book provides opportunities for the readers to explore the literature identify gaps in the existing works and propose new ideas for research

Risk Detection and Cyber Security for the Success of Contemporary Computing

2023-11-09

with the rapid evolution of technology identifying new risks is a constantly moving target the metaverse is a virtual space that is interconnected with cloud computing and with companies organizations and even countries investing in virtual real estate the questions of what new risks will become evident in these virtual worlds and in augmented reality and what real world impacts they will have in an ever expanding internet of things iot need to be answered within continually connected societies that require uninterrupted functionality cyber security is vital and the ability to detect potential risks and ensure the security of computing systems

is crucial to their effective use and success proper utilization of the latest technological advancements can help in developing more efficient techniques to prevent cyber threats and enhance cybersecurity risk detection and cyber security for the success of contemporary computing presents the newest findings with technological advances that can be utilized for more effective prevention techniques to protect against cyber threats this book is led by editors of best selling and highly indexed publications and together they have over two decades of experience in computer science and engineering featuring extensive coverage on authentication techniques cloud security and mobile robotics this book is ideally designed for students researchers scientists and engineers seeking current research on methods models and implementation of optimized security in digital contexts

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