

Reading free Particle swarm optimization and intelligence advances and applications premier reference source (Read Only)

this volume comprises the select peer reviewed proceedings of the international conference on advances and applications of artificial intelligence and machine learning 2022 icaaaiml 2022 it aims to provide a comprehensive and broad spectrum picture of state of the art research and development in the areas of artificial intelligence machine learning deep learning and their advanced applications in computer vision and blockchain it also covers research in core concepts of computers intelligent system design and deployment real time systems wsn sensors and sensor nodes software engineering image processing and cloud computing this volume will provide a valuable resource for those in academia and industry this book presents the proceedings of the 3rd conference on computer science electronics and industrial engineering csei 2021 held in ambato in october 2021 with participants from 10 countries and guest speakers from chile colombia brasil spain portugal and united states featuring 20 peer reviewed papers it discusses topics such as the use of metaheuristics for non deterministic problem solutions software architectures for supporting e government initiatives and the use of electronics in e learning and industrial environments it also includes contributions illustrating how new approaches to these converging research areas are impacting the development of human societies around the world as such it is a valuable resource for scholars and practitioners alike lithium ion batteries features an in depth description of different lithium ion applications including important features such as safety and reliability this title acquaints readers with the numerous and often consumer oriented applications of this widespread battery type lithium ion batteries also explores the concepts of nanostructured materials as well as the importance of battery management systems this handbook is an invaluable resource for electrochemical engineers and battery and fuel cell experts everywhere from research institutions and universities to a worldwide array of professional industries contains all applications of consumer and industrial lithium ion batteries including reviews in a single volume features contributions from the world s leading industry and research experts presents executive summaries of specific case studies covers information on basic research and application approaches special topic volume with invited peer reviewed papers only special topic volume with invited peer reviewed papers only internet of things challenges advances and applications provides a comprehensive introduction to iot related technologies and common issues in the adoption of iot on a large scale it surveys recent technological advances and novel solutions for challenges in the iot environment moreover it provides detailed discussion of the utilization of iot and its underlying technologies in critical application areas such as smart grids healthcare insurance and the automotive industry the chapters of this book are authored by several international researchers and industry experts this book is composed of 18 self contained chapters that can be read based on interest features introduces iot including its history common definitions underlying technologies and challenges discusses technological advances in iot and implementation considerations proposes novel solutions for common implementation issues explores critical application domains including large scale electric power distribution networks smart water and gas grids healthcare and e health applications and the insurance and automotive industries the book is an excellent reference for researchers and post graduate students working in the area of iot or related areas it also targets it professionals interested in gaining deeper knowledge of iot its challenges and application areas this book presents an overview of recent and emerging additive manufacturing am

techniques and their applications in such industries as aerospace automotive and biomedical several of the processes developed using various materials ranging from metals to plastics composites to human tissue are explained the chapters will help provide systematic solution for the selection and design of a process most appropriate for am the book also provides an easy guide to reading and understanding emerging trends in am while concurrently appreciating its importance for both existing and emerging applications advances and applications in mobile computing offers guidelines on how mobile software services can be used in order to simplify the mobile users life the main contribution of this book is enhancing mobile software application development stages as analysis design development and test also recent mobile network technologies such as algorithms decreasing energy consumption in mobile network and fault tolerance in distributed mobile computing are the main concern of the first section in the mobile software life cycle section the chapter on human computer interaction discusses mobile device handset design strategies following the chapters on mobile application testing strategies the last section mobile applications as service covers different mobile solutions and different application sectors this book provides a comprehensive compilation of knowledge covering state of the art developments and research as well as current innovative activities in multiple sensorial media and its importance in media design provided by publisher big data and data science are transforming our world today in ways we could not have imagined at the beginning of the twenty first century the accompanying wave of innovation has sparked advances in healthcare engineering business science and human perception among others the tremendous advances in computing power and intelligent techniques have opened many opportunities for managing data and investigating data in virtually every field and the scope of data science is expected to grow over the next decade these future research achievements will solve old challenges and create new opportunities for growth and development thus the research presented in this book is interdisciplinary and covers themes embracing emotions artificial intelligence robotics applications sentiment analysis smart city problems assistive technologies speech melody and fall and abnormal behavior detection the book is directed to the researchers practitioners professors and students interested in recent advances in methodologies and applications of data science an introduction to the topic is provided and research challenges and future research opportunities are highlighted throughout this book discusses several topics associated with different laser systems intended for applications in science and numerous industries some of them are latest achievements in laser physics while others face renewal in industrial applications the book consists of information regarding various topics like laser beam manipulation intense pulse propagation phenomena metrology and laser and terahertz sources which are further diversified into topics like mode locking micro lasers q switching pulse and beam shaping technologies enhancement methodologies etc it will serve as an excellent beginning point for students of laser physics and assist them through the elucidative information encompassed in this book this book gathers outstanding research papers presented in the 2nd international conference on artificial intelligence advances and application icaiaa 2021 held in poornima college of engineering jaipur india during 27 28 march 2021 this book covers research works carried out by various students such as bachelor master and doctoral scholars faculty and industry persons in the area of artificial intelligence machine learning deep learning applications in healthcare agriculture business security etc it will also cover research in core concepts of computer networks intelligent system design and deployment real time systems wsn sensors and sensor nodes sdn nfv etc this book presents recent advances in the development of biomaterials for industrial applications and discusses the potential for substituting environmentally hazardous substances with environmentally friendly and degradable components focusing on both the material development and production technologies it reviews different materials as well as new production technologies and application areas it also highlights the importance of incorporating organic materials into different composites to enable consumption of otherwise waste

materials further it addresses biopolymers for the food industry e.g. edible films and coatings in food production and biodegradable materials the automotive industry bio fuels such as biodiesel based on organic constituents and green composites in marine applications environmental protection aspects related to the protection of cultural heritage and new nanoparticles such as nano zerovalent iron are also reviewed aimed at young researchers professionals chemical engineers and marine engineers the book is the result of the joint efforts of different academic and research institutions participating in the wimb tempus project 543898 tempus 1 2013 1 es tempus jphes development of sustainable interrelations between education research and innovation at wbc universities in nanotechnologies and advanced materials where innovation means business co funded by the european union tempus program green extraction techniques principles advances and applications volume 76 the first work to compile all the multiple green extraction techniques and applications currently available provides the most recent analytical advances in the main green extraction techniques this new release includes a variety of comprehensively presented topics including chapters on green analytical chemistry the role of green extraction techniques bioactives obtained from plants seaweeds microalgae and food by products using pressurized liquid extraction and supercritical fluid extraction pressurized hot water extraction of bioactives and pressurized liquid extraction of organic contaminants in environmental and food samples in this ongoing serial in depth emerging green extraction approaches are discussed together with their miniaturization and combination showing the newest technologies that have been developed in the last few years for each case and providing a picture of the most innovative applications with further insights into future trends compiles all the multiple green extraction techniques currently available along with their applications includes the most recent analytical advances in the main green extraction techniques along with their working principles covers emerging green extraction approaches their miniaturization and combination and an insight into future trends recent developments in parallel computing mean that the use of machine learning techniques and intelligence to handle the huge volume of available data have brought the faster solutions offered by advanced technologies to various fields of application this book presents the proceedings of the virtual international conference on advances in parallel computing technologies and applications icapta 2021 hosted in justice basheer ahmed sayeed college for women formerly s i e t women s college chennai india and held online as a virtual event on 15 and 16 april 2021 the aim of the conference was to provide a forum for sharing knowledge in various aspects of parallel computing in communications systems and networking including cloud and virtualization solutions management technologies and vertical application areas it also provided a platform for scientists researchers practitioners and academicians to present and discuss the most recent innovations and trends as well as the concerns and practical challenges encountered in this field included here are 52 full length papers selected from over 100 submissions based on the reviews and comments of subject experts topics covered include parallel computing in communication machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects providing an overview of the latest developments in the field the book will be of interest to all those whose work involves the use of parallel computing technologies photonics and electronics are endlessly converging into a single technology by exploiting the possibilities created by nanostructuring of materials and devices it is expected that next generation optoelectronic devices will show great improvements in terms of performance flexibility and energy consumption the main limits of nanoelectronics will be overcome by using a photonics approach while nanophotonics will become a mature technology thanks to miniaturization strategies developed in microelectronics mastering such a complex subject requires a multidisciplinary approach and a solid knowledge of several topics this book gives a broad overview of recent advances in several topical aspects of nanophotonics and nanoelectronics keeping an eye on real applications of such technologies and focuses on the possibilities created by advanced photon management strategies in

optoelectronic devices starting from pure photonic systems the book provides several examples in which the interaction between photonics and electronics is exploited to achieve faster compact and more efficient devices a large number of figures and tables also support each chapter this book constitutes a valuable resource for researchers engineers and professionals working on the development of optoelectronics reflecting the interdisciplinary nature of biotechnology this book covers the role of targeted delivery of polymeric nanodrugs to cancer cells microbial detoxifying enzymes in bioremediation and bacterial plasmids in antimicrobial resistance it addresses modern trends such as pharmacogenomics evaluation of gene expression recombinant proteins from methylotrophic yeast identification of novel fermentation inhibitors of bioethanol production and polyhydroxyalkanoate based biomaterials the book highlights the practical utility of biotechnology and bioinformatics for bioenergy production of high value biochemicals modeling molecular interactions drug discovery and personalized medicine this book is designed to serve as a comprehensive resource on cellular confinement systems or geocells covering technologies and their applications in geotechnical engineering the book discusses all aspects of geocells and related technologies and covers the subjects from conceptual basics to recent advances the chapters of this book are written by renowned international experts and its contents include detailed case studies from both academic and industry experts this book is a one stop reference work for academicians students and practicing engineers in the global geotechnical community learn the latest advances in sic silicon carbide technology from the leading experts in the field with this new cutting edge resource the book is your single source for in depth information on both sic device fabrication and system level applications this comprehensive reference begins with an examination of how sic is grown and how defects in sic growth can affect working devices key issues in selective doping of sic via ion implantation are covered with special focus on implant conditions and electrical activation of implants sic applications discussed include chemical sensors motor control components high temperature gas sensors and high temperature electronics by cutting through the arcane data and jargon surrounding the hype on sic this book gives an honest assessment of today s sic technology and shows you how sic can be adopted in developing tomorrow s applications industrial process control advances and applications is a comprehensive practical easy to read book on process control covering some of the most important topics in the petrochemical process industry including fieldbus multiphase flow metering and other recently developed control systems drawing from his own experience and successes at such high profile companies as brown and root and honeywell spanning more than 20 years the author explains the practical applications of some of the most intricate and complicated control systems that have ever been developed compilation of all the best instrumentation and control techniques used in industry today interesting theoretical content as well as practical topics on planning integration and application includes the latest on fieldbus profibus and multiphase flow metering papers collected from researchers in fusion information such as florentin smarandache jean dezert hongshe dang chongzhao han frederic dambreville milan daniel mohammad khoshnevisan sukanto bhattacharya albena tchamova tzvetan semerdjiev pavlina konstantinova hongyan sun mohammad farooq john j sudano samuel corgne gregoire mercier laurence hubert moy anne laure jouselme patrick maupin and others on dezert smarandache theory of plausible and paradoxical reasoning dsmt the principal theories available until now for data fusion are the probability theory the fuzzy set theory the possibility theory the hint theory and the theory of evidence since last two years j dezert and f smarandache are actively developing a new theory of plausible and paradoxical reasoning called dsmt acronym for dezert smarandache theory for information fusion of uncertain and highly conflicting sources of information the dsmt can be interpreted as a generalization of the dempster shafer theory dst but goes far beyond the dst the free dsmt model which assumes that the ultimate refinement of the frame of discernment of the fusion problem is not accessible due to the intrinsic nature of its elements is opposite to the

shafer's model on which is based the DST assuming the exhaustivity and exclusivity of all elements of the frame of discernment the DSMT proposes a new theoretical framework for data fusion based on definition of hyper power sets and a new simple commutative and associative rule of combination recently it has been discovered through a new DSM hybrid rule of combination that DSMT can be also extended to problems involving hybrid models models including some exclusivity and or non existentially constraints this new important theoretical result offers now to the DSMT a wider class of fusion applications and allows potentially to attack the next generation of complex dynamical temporal fusion problems DSMT can also provide a theoretical issue for the fusion of neutrosophic information extension of fuzzy information proposed by F. Smarandache in nineties see gallup.unm.edu/smarandache/firstneutconf.htm for details about the neutrosophy logic and neutrosophy set theory biomolecules from natural sources an up to date exploration of new and novel biomolecules in biomolecules from natural sources advances and applications a team of accomplished researchers delivers up to date information on various bioresources bioprocessing production mechanisms of action for selective bioactivity biochemistry targeted therapeutic roles and the advancements made on their bioactive potentials of new and novel biomolecules the book presents recent trends in new and novel biomolecules and their identification characterization and potential applications the selected contributions canvas a variety of breakthroughs in the understanding and applications of naturally derived biomolecules biomolecules from natural sources advances and applications is an exhaustive collection of research and information as well as an insightful and interdisciplinary treatment of a rapidly developing field readers will also find a thorough introduction to phenolics from natural sources and plant based natural artemisinin and its biomedical applications comprehensive explorations of protein structure function and specificity and the pharmacological potential of pigments practical discussions of biomolecules obtained through food biotechnology and the biological activities of natural glycosides in depth examinations of biomolecules from basil and their pharmacological significance perfect for biotechnologists food technologists and plant biologists biomolecules from natural sources advances and applications will also earn a place in the libraries of bioprocessing engineers as well as undergraduate and postgraduate students of biochemistry this edited volume presents latest development in applications of Rasch measurement in science education it includes a conceptual introduction chapter and a set of individual chapters the introductory chapter reviews published studies applying Rasch measurement in the field of science education and identify important principles of Rasch measurement and best practices in applications of Rasch measurement in science education the individual chapters contributed by authors from Canada China Germany Philippines and the USA cover a variety of current topics on measurement concerning science conceptual understanding scientific argumentation scientific reasoning three dimensional learning knowledge in use and cross cutting concepts of the next generation science standards medical education learning experiences machine scoring bias formative assessment and teacher knowledge of argument there are additional chapters on advances in Rasch analysis techniques and technology including R Bayesian estimation comparison between joint maximum likelihood JML and marginal maximum likelihood MML estimations on model data fit and enhancement to Rasch models by cognitive diagnostic models and latent class analysis the volume provides readers who are new and experienced in applying Rasch measurement with advanced and exemplary applications in the forefront of various areas of science education research genome editing using CRISPR has been identified as one breakthrough technology in recent research today it is difficult to open a journal or a newspaper without reading about the application of CRISPR gene editing technology to basic research public health therapeutics or diagnostics although some problems of CRISPR remain to be solved such as bio safety and ethical issues it may change peoples futures this book is to meet the needs of basic molecular biochemists pharmacologists medical students clinical practitioners and scientists as well as a broad spectrum of readers who wish to understand the advances in research

and applications of crispr the contributing authors are basic scientists as well as students who major in biochemistry and pharmacology the book presents the current research in the crispr model focusing on its advances and applications topics discussed in this compilation include targeting of hepatic diseases using crispr applications and advances of crispr in animal models gene targeting on the cyp2c locus in rats via crispr applications of crispr for therapy in human genetic diseases utilization of crispr in gene function and drug target validation applications of crispr in plant genome editing and genome editing on human embryos using crispr pulsed laser based techniques for depositing and processing materials are an important area of modern experimental and theoretical scientific research and development with promising challenging opportunities in the fields of nanofabrication and nanostructuring understanding the interplay between deposition processing conditions laser parameters as well as material properties and dimensionality is demanding for improved fundamental knowledge and novel applications this book introduces and discusses the basic principles of pulsed laser matter interaction with a focus on its peculiarities and perspectives compared to other conventional techniques and state of the art applications the book starts with an overview of the growth topics followed by a discussion of laser matter interaction depending on laser pulse duration background conditions materials and combination of materials and structures the information outlines the foundation to introduce examples of laser nanostructuring processing of materials pointing out the importance of pulsed laser based technologies in modern nano science with respect to similar texts and monographs the book offers a comprehensive review including bottom up and top down laser induced processes for nanoparticles and nanomicrostructure generation theoretical models are discussed by correlation with advanced experimental protocols in order to account for the fundamentals and underline physical mechanisms of laser matter interaction reputed internationally recognized experts in the field have contributed to this book in particular this book is suitable for a reader graduate students as well as postgraduates and more generally researchers new to the subject of pulsed laser ablation in order to gain physical insight into and advanced knowledge of mechanisms and processes involved in any deposition processing experiment based on pulsed laser matter interaction since knowledge in the field is given step by step comprehensively this book serves as a valid introduction to the field as well as a foundation for further specific readings machine vision technology is becoming an indispensable part of the manufacturing industry biomedical and scientific applications of machine vision and imaging are becoming more and more sophisticated and new applications continue to emerge this book gives an overview of ongoing research in machine vision and presents the key issues of scientific and practical interest a selected board of experts from the us japan and europe provides an insight into some of the latest work done on machine vision systems and applications molecular and laser spectroscopy advances and applications provides students and researchers with an up to date understanding of the fast developing area of molecular and laser spectroscopy editor v p gupta has brought together the eminent scientists on a selection of topics to develop a systematic approach first covering basic principles needed to understand each cutting edge technique and application this book acts as a standard reference for advanced students of molecular and laser spectroscopy and as a graduate text for new entrants in the field the book covers a wide range of applications of molecular and laser spectroscopy in diverse areas ranging from materials to medicine and defence biomedical research environmental monitoring forensic investigations food and agriculture and chemical pharmaceutical and petrochemical processes researchers and scientific personnel in these fields will learn the latest techniques in order to put them to practical use in their work this book discusses the latest advances and applications in geospatial technologies and earth resources for mine surveying and civil engineering it also discusses mineral resources management and assesses many techniques such as unmanned aerial vehicles drones ground penetrating radar geographic information system gis and gis based machine learning the book gathers the proceedings of the

international conference on geo spatial technologies and earth resources gter 2017 which was co organized by the hanoi university of mining and geology hung and the international society for mine surveying ism and held in hanoi vietnam on october 5 6 2017 gter 2017 is technically co sponsored by the vietnam mining science and technology association vmst vietnam association of geodesy cartography and remote sensing vgcr vietnam national coal mineral industries holding corporation limited vinacomin and the dong bac corporation neco the event is intended to bring together experts researchers engineers and policymakers to discuss and exchange their knowledges and experiences with modern geospatial technologies recent advances in mining and tunneling and the geological and earth sciences given its breadth of coverage the book will appeal to scientists in the field as well as professionals interested in related technological applications this book integrates knowledge of plant biotechnology plant physiology and the environment it presents new information about soil organic carbon sequestration using plant species tropical grasses that have potential in climate change mitigation it also presents scientific knowledge on the multipurpose role of microrna mirna focusing mainly on stress tolerance in crop plants chapters discuss uses methods and advantages of recombinant dna technology and novel plant biotechnology applications for plant based vaccines this volume brings together knowledge about non edible plants seeds as potential sources of biodiesel production to mitigate the global energy crisis this reference text presents the state of the art in edge computing its primitives devices and simulators applications and healthcare based case studies the text provides integration of blockchain with edge computing systems and integration of edge with internet of things iot and cloud computing it will facilitate the readers to setup edge based environment and work with edge analytics it covers important topics including cluster computing fog computing networking architecture edge computing simulators edge analytics privacy preserving schemes edge computing with blockchain autonomous vehicles and cross domain authentication aimed at senior undergraduate graduate students and professionals in the fields of electrical engineering electronics engineering computer science and information technology this text discusses edge data storage security with case studies and blockchain integration with edge computing system covers theoretical methods with the help of applications use cases case studies and examples provides healthcare real time case studies are elaborated in detailed by utilizing the virtues of homomorphic encryption discusses real time interfaces devices and simulators in detail advances in mathematical chemistry and applications volume 1 highlights the emerging discipline of mathematical chemistry or more precisely discrete mathematical chemistry this volume is written by internationally renowned experts in the field it comprises of a wise integration of mathematical and chemical concepts and covers numerous applications in the field of drug discovery bioinformatics chemoinformatics computational biology and ecological health the contents of this book include chapters on mathematical structural descriptors of molecules and biomolecules topological representation of molecular structure connectivity matrices use of weighted 2d fingerprints in similarity based virtual screening and much more this ebook is a valuable resource for msc and phd students academic personnel and researchers seeking updated and critically important information on the fundamental concepts of mathematical chemistry and their applications this book contains chapters written by eminent scientists on the latest development in computer technology and applications in japan the objective of the book is to provide an awareness of the considerable advances being made by japanese scientists on the general area of information technology and in the so called fifth generation computer systems in the first chapter watanabe of the nec corporation describes advanced architecture and technology of supercomputing systems this theme is followed by nakamura of tohoku university in the next chapter another type of supercomputer for vector processing the facom vp 2000 series is then described by uchida offujitsu ltd in chapter 3 expert systems are presented in the next two chapters by ue no and oomari of tokyo denki university and by koseki and goto of the nec corporation important applications in computer graphics are

described in chapter six by ishii and mu rakami of fujitsu laboratories hayahi from the same labora tory then discusses neurocomputers in japan the final chap ter by noguchi of tohoku university illustrates an important application in communications materials with superhydrophobic or related properties are one of the most studied subjects from a theoretical point of view and also for the large range of possible applications for example anticorrosion antibacteria optical devices and sensors the study of natural species with special wettability has shown us the importance of surface structures and the surface energy of the resulting surface properties various strategies can be used to reproduce superhydrophobic phenomena in the laboratory general reviews on superhydrophobic properties already exist but to our knowledge do not focus on metallic and inorganic materials here we focus especially on the strategies implemented for reaching superhydrophobic or related properties using metallic and inorganic materials indeed these materials present unique properties for example thermal and mechanical resistance chemical and ageing resistance and optical transparency antireflection photoluminescence and electrical properties conducting semiconducting insulating this book will be useful for graduate students of materials chemistry and physics and for researchers in surface science nanostructures and bioinspired or biomimetic materials nanotechnology advances and real life applications offers a comprehensive reference text about advanced concepts and applications in the field of nanotechnology the text written by researchers practicing in the field presents a detailed discussion of key concepts including nanomaterials and their synthesis fabrication and characterization of nanomaterials carbon based nanomaterials nano bio interface and nanoelectronics the applications of nanotechnology in the fields of renewable energy medicine and agriculture are each covered in a dedicated chapter the text will be invaluable for senior undergraduate and graduate students in the fields of electrical engineering electronics engineering nanotechnology and nanoscience dr cherry bhargava is an associate professor and head vlsi domain at the school of electrical and electronics engineering of lovely professional university jalandhar india dr amit sachdeva is an associate professor at lovely professional university jalandhar india this book discusses a variety of topics in mathematics and engineering as well as their applications clearly explaining the mathematical concepts in the simplest possible way and illustrating them with a number of solved examples the topics include real and complex analysis special functions and analytic number theory q series ramanujan s mathematics fractional calculus clifford and harmonic analysis graph theory complex analysis complex dynamical systems complex function spaces and operator theory geometric analysis of complex manifolds geometric function theory riemannian surfaces teichmüller spaces and kleinian groups engineering applications of complex analytic methods nonlinear analysis inequality theory potential theory partial differential equations numerical analysis fixed point theory variational inequality equilibrium problems optimization problems stability of functional equations and mathematical physics it includes papers presented at the 24th international conference on finite or infinite dimensional complex analysis and applications 24icfidcaa held at the anand international college of engineering jaipur 22 26 august 2016 the book is a valuable resource for researchers in real and complex analysis

Advances and Applications of Artificial Intelligence & Machine Learning 2023-12-21

this volume comprises the select peer reviewed proceedings of the international conference on advances and applications of artificial intelligence and machine learning 2022 icaaaiml 2022 it aims to provide a comprehensive and broad spectrum picture of state of the art research and development in the areas of artificial intelligence machine learning deep learning and their advanced applications in computer vision and blockchain it also covers research in core concepts of computers intelligent system design and deployment real time systems wsn sensors and sensor nodes software engineering image processing and cloud computing this volume will provide a valuable resource for those in academia and industry

Advances and Applications in Computer Science, Electronics, and Industrial Engineering 2022-05-25

this book presents the proceedings of the 3rd conference on computer science electronics and industrial engineering csei 2021 held in ambato in october 2021 with participants from 10 countries and guest speakers from chile colombia brasil spain portugal and united states featuring 20 peer reviewed papers it discusses topics such as the use of metaheuristics for non deterministic problem solutions software architectures for supporting e government initiatives and the use of electronics in e learning and industrial environments it also includes contributions illustrating how new approaches to these converging research areas are impacting the development of human societies around the world as such it is a valuable resource for scholars and practitioners alike

Advances and Applications of DSMT for Information Fusion 2006

lithium ion batteries features an in depth description of different lithium ion applications including important features such as safety and reliability this title acquaints readers with the numerous and often consumer oriented applications of this widespread battery type lithium ion batteries also explores the concepts of nanostructured materials as well as the importance of battery management systems this handbook is an invaluable resource for electrochemical engineers and battery and fuel cell experts everywhere from research institutions and universities to a worldwide array of professional industries contains all applications of consumer and industrial lithium ion batteries including reviews in a single volume features contributions from the world s leading industry and research experts presents executive summaries of specific case studies covers information on basic research and application approaches

Computer Vision and Information Technology 2018

special topic volume with invited peer reviewed papers only

Lithium-Ion Batteries 2018-11-13

special topic volume with invited peer reviewed papers only

Current Advances in Materials Applications II 2021

internet of things challenges advances and applications provides a comprehensive

introduction to iot related technologies and common issues in the adoption of iot on a large scale it surveys recent technological advances and novel solutions for challenges in the iot environment moreover it provides detailed discussion of the utilization of iot and its underlying technologies in critical application areas such as smart grids healthcare insurance and the automotive industry the chapters of this book are authored by several international researchers and industry experts this book is composed of 18 self contained chapters that can be read based on interest features introduces iot including its history common definitions underlying technologies and challenges discusses technological advances in iot and implementation considerations proposes novel solutions for common implementation issues explores critical application domains including large scale electric power distribution networks smart water and gas grids healthcare and e health applications and the insurance and automotive industries the book is an excellent reference for researchers and post graduate students working in the area of iot or related areas it also targets it professionals interested in gaining deeper knowledge of iot its challenges and application areas

Current Advances in Materials Applications 2020

this book presents an overview of recent and emerging additive manufacturing am techniques and their applications in such industries as aerospace automotive and biomedical several of the processes developed using various materials ranging from metals to plastics composites to human tissue are explained the chapters will help provide systematic solution for the selection and design of a process most appropriate for am the book also provides an easy guide to reading and understanding emerging trends in am while concurrently appreciating its importance for both existing and emerging applications

Internet of Things 2017-12-15

advances and applications in mobile computing offers guidelines on how mobile software services can be used in order to simplify the mobile users life the main contribution of this book is enhancing mobile software application development stages as analysis design development and test also recent mobile network technologies such as algorithms decreasing energy consumption in mobile network and fault tolerance in distributed mobile computing are the main concern of the first section in the mobile software life cycle section the chapter on human computer interaction discusses mobile device handset design strategies following the chapters on mobile application testing strategies the last section mobile applications as service covers different mobile solutions and different application sectors

Additive Manufacturing 2015-10-12

this book provides a comprehensive compilation of knowledge covering state of the art developments and research as well as current innovative activities in multiple sensorial media and its importance in media design provided by publisher

Advances and Applications in Mobile Computing 2012-03-30

big data and data science are transforming our world today in ways we could not have imagined at the beginning of the twenty first century the accompanying wave of innovation has sparked advances in healthcare engineering business science and human perception among others the tremendous advances in computing power and intelligent techniques have opened many opportunities for managing data and investigating data in virtually every field and the scope of data science is expected to

grow over the next decade these future research achievements will solve old challenges and create new opportunities for growth and development thus the research presented in this book is interdisciplinary and covers themes embracing emotions artificial intelligence robotics applications sentiment analysis smart city problems assistive technologies speech melody and fall and abnormal behavior detection the book is directed to the researchers practitioners professors and students interested in recent advances in methodologies and applications of data science an introduction to the topic is provided and research challenges and future research opportunities are highlighted throughout

Multiple Sensorial Media Advances and Applications 2011-07-01

this book discusses several topics associated with different laser systems intended for applications in science and numerous industries some of them are latest achievements in laser physics while others face renewal in industrial applications the book consists of information regarding various topics like laser beam manipulation intense pulse propagation phenomena metrology and laser and terahertz sources which are further diversified into topics like mode locking micro lasers q switching pulse and beam shaping technologies enhancement methodologies etc it will serve as an excellent beginning point for students of laser physics and assist them through the elucidative information encompassed in this book

Advances in Data Science: Methodologies and Applications 2020-08-26

this book gathers outstanding research papers presented in the 2nd international conference on artificial intelligence advances and application icaiaa 2021 held in poornima college of engineering jaipur india during 27 28 march 2021 this book covers research works carried out by various students such as bachelor master and doctoral scholars faculty and industry persons in the area of artificial intelligence machine learning deep learning applications in healthcare agriculture business security etc it will also cover research in core concepts of computer networks intelligent system design and deployment real time systems wsn sensors and sensor nodes sdn nfv etc

Advances and Applications of Laser Systems 2015-03-26

this book presents recent advances in the development of biomaterials for industrial applications and discusses the potential for substituting environmentally hazardous substances with environmentally friendly and degradable components focusing on both the material development and production technologies it reviews different materials as well as new production technologies and application areas it also highlights the importance of incorporating organic materials into different composites to enable consumption of otherwise waste materials further it addresses biopolymers for the food industry e g edible films and coatings in food production and biodegradable materials the automotive industry bio fuels such as biodiesel based on organic constituents and green composites in marine applications environmental protection aspects related to the protection of cultural heritage and new nanoparticles such as nano zerovalent iron are also reviewed aimed at young researchers professionals chemical engineers and marine engineers the book is the result of the joint efforts of different academic and research institutions participating in the wimb tempus project 543898 tempus 1 2013 1 es tempus jphes development of sustainable interrelations between education research and innovation at wbc

universities in nanotechnologies and advanced materials where innovation means business co funded by the european union tempus program

Proceedings of 2nd International Conference on Artificial Intelligence: Advances and Applications 2022-02-14

green extraction techniques principles advances and applications volume 76 the first work to compile all the multiple green extraction techniques and applications currently available provides the most recent analytical advances in the main green extraction techniques this new release includes a variety of comprehensively presented topics including chapters on green analytical chemistry the role of green extraction techniques bioactives obtained from plants seaweeds microalgae and food by products using pressurized liquid extraction and supercritical fluid extraction pressurized hot water extraction of bioactives and pressurized liquid extraction of organic contaminants in environmental and food samples in this ongoing serial in depth emerging green extraction approaches are discussed together with their miniaturization and combination showing the newest technologies that have been developed in the last few years for each case and providing a picture of the most innovative applications with further insights into future trends compiles all the multiple green extraction techniques currently available along with their applications includes the most recent analytical advances in the main green extraction techniques along with their working principles covers emerging green extraction approaches their miniaturization and combination and an insight into future trends

Advances and Applications in Deep Learning 2017-08-07

recent developments in parallel computing mean that the use of machine learning techniques and intelligence to handle the huge volume of available data have brought the faster solutions offered by advanced technologies to various fields of application this book presents the proceedings of the virtual international conference on advances in parallel computing technologies and applications icapta 2021 hosted in justice basheer ahmed sayeed college for women formerly s i e t women s college chennai india and held online as a virtual event on 15 and 16 april 2021 the aim of the conference was to provide a forum for sharing knowledge in various aspects of parallel computing in communications systems and networking including cloud and virtualization solutions management technologies and vertical application areas it also provided a platform for scientists researchers practitioners and academicians to present and discuss the most recent innovations and trends as well as the concerns and practical challenges encountered in this field included here are 52 full length papers selected from over 100 submissions based on the reviews and comments of subject experts topics covered include parallel computing in communication machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects providing an overview of the latest developments in the field the book will be of interest to all those whose work involves the use of parallel computing technologies

Advances in Applications of Industrial Biomaterials 2017-07-17

photonics and electronics are endlessly converging into a single technology by exploiting the possibilities created by nanostructuring of materials and devices it is expected that next generation optoelectronic devices will show great improvements

in terms of performance flexibility and energy consumption the main limits of nanoelectronics will be overcome by using a photonics approach while nanophotonics will become a mature technology thanks to miniaturization strategies developed in microelectronics mastering such a complex subject requires a multidisciplinary approach and a solid knowledge of several topics this book gives a broad overview of recent advances in several topical aspects of nanophotonics and nanoelectronics keeping an eye on real applications of such technologies and focuses on the possibilities created by advanced photon management strategies in optoelectronic devices starting from pure photonic systems the book provides several examples in which the interaction between photonics and electronics is exploited to achieve faster compact and more efficient devices a large number of figures and tables also support each chapter this book constitutes a valuable resource for researchers engineers and professionals working on the development of optoelectronics

Green Extraction Techniques: Principles, Advances and Applications 2021-11-25

reflecting the interdisciplinary nature of biotechnology this book covers the role of targeted delivery of polymeric nanodrugs to cancer cells microbial detoxifying enzymes in bioremediation and bacterial plasmids in antimicrobial resistance it addresses modern trends such as pharmacogenomics evaluation of gene expression recombinant proteins from methylotrophic yeast identification of novel fermentation inhibitors of bioethanol production and polyhydroxyalkanoate based biomaterials the book highlights the practical utility of biotechnology and bioinformatics for bioenergy production of high value biochemicals modeling molecular interactions drug discovery and personalized medicine

Advances in Parallel Computing Technologies and Applications 2015-12-23

this book is designed to serve as a comprehensive resource on cellular confinement systems or geocells covering technologies and their applications in geotechnical engineering the book discusses all aspects of geocells and related technologies and covers the subjects from conceptual basics to recent advances the chapters of this book are written by renowned international experts and its contents include detailed case studies from both academic and industry experts this book is a one stop reference work for academicians students and practicing engineers in the global geotechnical community

Nanodevices for Photonics and Electronics 2014-07-01

learn the latest advances in sic silicon carbide technology from the leading experts in the field with this new cutting edge resource the book is your single source for in depth information on both sic device fabrication and system level applications this comprehensive reference begins with an examination of how sic is grown and how defects in sic growth can affect working devices key issues in selective doping of sic via ion implantation are covered with special focus on implant conditions and electrical activation of implants sic applications discussed include chemical sensors motor control components high temperature gas sensors and high temperature electronics by cutting through the arcane data and jargon surrounding the hype on sic this book gives an honest assessment of today's sic technology and shows you how sic can be adopted in developing tomorrow's applications

Biotechnology and Bioinformatics 2021-07-25

industrial process control advances and applications is a comprehensive practical easy to read book on process control covering some of the most important topics in the petrochemical process industry including fieldbus multiphase flow metering and other recently developed control systems drawing from his own experience and successes at such high profile companies as brown and root and honeywell spanning more than 20 years the author explains the practical applications of some of the most intricate and complicated control systems that have ever been developed compilation of all the best instrumentation and control techniques used in industry today interesting theoretical content as well as practical topics on planning integration and application includes the latest on fieldbus profibus and multiphase flow metering

Geocells 2004

papers collected from researchers in fusion information such as florentin smarandache jean dezert hongshe dang chongzhao han frederic dambreville milan daniel mohammad khoshnevisan sukanto bhattacharya albena tchamova tzvetan semerdjiev pavlina konstantinova hongyan sun mohammad farooq john j sudano samuel corgne gregoire mercier laurence hubert moy anne laure jouselme patrick maupin and others on dezert smarandache theory of plausible and paradoxical reasoning dsmt the principal theories available until now for data fusion are the probability theory the fuzzy set theory the possibility theory the hint theory and the theory of evidence since last two years j dezert and f smarandache are actively developing a new theory of plausible and paradoxical reasoning called dsmt acronym for dezert smarandache theory for information fusion of uncertain and highly conflicting sources of information the dsmt can be interpreted as a generalization of the dempster shafer theory dst but goes far beyond the dst the free dsmt model which assumes that the ultimate refinement of the frame of discernment of the fusion problem is not accessible due to the intrinsic nature of its elements is opposite to the shafer s model on which is based the dst assuming the exhaustivity and exclusivity of all elements of the frame of discernment the dsmt proposes a new theoretical framework for data fusion based on definition of hyper power sets and a new simple commutative and associative rule of combination recently it has been discovered through a new dsm hybrid rule of combination that dsmt can be also extended to problems involving hybrid models models including some exclusivity and or non existentially constraints this new important theoretical result offers now to the dsmt a wider class of fusion applications and allows potentially to attack the next generation of complex dynamical temporal fusion problems dsmt can also provide a theoretical issue for the fusion of neutrosophic information extension of fuzzy information proposed by f smarandache in nineties see gallup.unm.edu/smarandache/firstneutconf.htm for details about the neutrosophy logic and neutrosophy set theory

Advances in Silicon Carbide Processing and Applications 2002-10-22

biomolecules from natural sources an up to date exploration of new and novel biomolecules in biomolecules from natural sources advances and applications a team of accomplished researchers delivers up to date information on various bioresources bioprocessing production mechanisms of action for selective bioactivity biochemistry targeted therapeutic roles and the advancements made on their bioactive potentials of new and novel biomolecules the book presents recent trends in new and novel biomolecules and their identification characterization and potential applications the selected contributions canvas a variety of breakthroughs in the understanding and applications of naturally derived biomolecules biomolecules from natural sources advances and applications is an exhaustive collection of research and information as

well as an insightful and interdisciplinary treatment of a rapidly developing field readers will also find a thorough introduction to phenolics from natural sources and plant based natural artemisinin and its biomedical applications comprehensive explorations of protein structure function and specificity and the pharmacological potential of pigments practical discussions of biomolecules obtained through food biotechnology and the biological activities of natural glycosides in depth examinations of biomolecules from basil and their pharmacological significance perfect for biotechnologists food technologists and plant biologists biomolecules from natural sources advances and applications will also earn a place in the libraries of bioprocessing engineers as well as undergraduate and postgraduate students of biochemistry

Industrial Process Control: Advances and Applications 2004

this edited volume presents latest development in applications of rasch measurement in science education it includes a conceptual introduction chapter and a set of individual chapters the introductory chapter reviews published studies applying rasch measurement in the field of science education and identify important principles of rasch measurement and best practices in applications of rasch measurement in science education the individual chapters contributed by authors from canada china germany philippines and the usa cover a variety of current topics on measurement concerning science conceptual understanding scientific argumentation scientific reasoning three dimensional learning knowledge in use and cross cutting concepts of the next generation science standards medical education learning experiences machine scoring bias formative assessment and teacher knowledge of argument there are additional chapters on advances in rasch analysis techniques and technology including r bayesian estimation comparison between joint maximum likelihood jml and marginal maximum likelihood mml estimations on model data fit and enhancement to rasch models by cognitive diagnostic models and latent class analysis the volume provides readers who are new and experienced in applying rasch measurement with advanced and exemplary applications in the forefront of various areas of science education research

Advances and Applications of DSMT for Information Fusion (Collected works) 2022-04-11

genome editing using crispr has been identified as one breakthrough technology in recent research today it is difficult to open a journal or a newspaper without reading about the application of crispr gene editing technology to basic research public health therapeutics or diagnostics although some problems of crispr remain to be solved such as bio safety and ethical issues it may change peoples futures this book is to meet the needs of basic molecular biochemists pharmacologists medical students clinical practitioners and scientists as well as a broad spectrum of readers who wish to understand the advances in research and applications of crispr the contributing authors are basic scientists as well as students who major in biochemistry and pharmacology the book presents the current research in the crispr model focusing on its advances and applications topics discussed in this compilation include targeting of hepatic diseases using crispr applications and advances of crispr in animal models gene targeting on the cyp2c locus in rats via crispr applications of crispr for therapy in human genetic diseases utilization of crispr in gene function and drug target validation applications of crispr in plant genome editing and genome editing on human embryos using crispr

Biomolecules from Natural Sources 2023-08-15

pulsed laser based techniques for depositing and processing materials are an important area of modern experimental and theoretical scientific research and development with promising challenging opportunities in the fields of nanofabrication and nanostructuring understanding the interplay between deposition processing conditions laser parameters as well as material properties and dimensionality is demanding for improved fundamental knowledge and novel applications this book introduces and discusses the basic principles of pulsed laser matter interaction with a focus on its peculiarities and perspectives compared to other conventional techniques and state of the art applications the book starts with an overview of the growth topics followed by a discussion of laser matter interaction depending on laser pulse duration background conditions materials and combination of materials and structures the information outlines the foundation to introduce examples of laser nanostructuring processing of materials pointing out the importance of pulsed laser based technologies in modern nano science with respect to similar texts and monographs the book offers a comprehensive review including bottom up and top down laser induced processes for nanoparticles and nanomicrostructure generation theoretical models are discussed by correlation with advanced experimental protocols in order to account for the fundamentals and underline physical mechanisms of laser matter interaction reputed internationally recognized experts in the field have contributed to this book in particular this book is suitable for a reader graduate students as well as postgraduates and more generally researchers new to the subject of pulsed laser ablation in order to gain physical insight into and advanced knowledge of mechanisms and processes involved in any deposition processing experiment based on pulsed laser matter interaction since knowledge in the field is given step by step comprehensively this book serves as a valid introduction to the field as well as a foundation for further specific readings

Advances in Applications of Rasch Measurement in Science Education 2017

machine vision technology is becoming an indispensable part of the manufacturing industry biomedical and scientific applications of machine vision and imaging are becoming more and more sophisticated and new applications continue to emerge this book gives an overview of ongoing research in machine vision and presents the key issues of scientific and practical interest a selected board of experts from the us japan and europe provides an insight into some of the latest work done on machine vision systems and applications

CRISPR 2018-01-09

molecular and laser spectroscopy advances and applications provides students and researchers with an up to date understanding of the fast developing area of molecular and laser spectroscopy editor v p gupta has brought together the eminent scientists on a selection of topics to develop a systematic approach first covering basic principles needed to understand each cutting edge technique and application this book acts as a standard reference for advanced students of molecular and laser spectroscopy and as a graduate text for new entrants in the field the book covers a wide range of applications of molecular and laser spectroscopy in diverse areas ranging from materials to medicine and defence biomedical research environmental monitoring forensic investigations food and agriculture and chemical pharmaceutical and petrochemical processes researchers and scientific personnel in these fields will learn the latest techniques in order to put them to practical use in their work

Pulsed Laser Ablation 2012-12-06

this book discusses the latest advances and applications in geospatial technologies and earth resources for mine surveying and civil engineering it also discusses mineral resources management and assesses many techniques such as unmanned aerial vehicles drones ground penetrating radar geographic information system gis and gis based machine learning the book gathers the proceedings of the international conference on geo spatial technologies and earth resources gter 2017 which was co organized by the hanoi university of mining and geology humg and the international society for mine surveying ism and held in hanoi vietnam on october 5 6 2017 gter 2017 is technically co sponsored by the vietnam mining science and technology association vmst vietnam association of geodesy cartography and remote sensing vgcr vietnam national coal mineral industries holding corporation limited vinacomin and the dong bac corporation neco the event is intended to bring together experts researchers engineers and policymakers to discuss and exchange their knowledges and experiences with modern geospatial technologies recent advances in mining and tunneling and the geological and earth sciences given its breadth of coverage the book will appeal to scientists in the field as well as professionals interested in related technological applications

Advances in Machine Vision 2017-09-21

this book integrates knowledge of plant biotechnology plant physiology and the environment it presents new information about soil organic carbon sequestration using plant species tropical grasses that have potential in climate change mitigation it also presents scientific knowledge on the multipurpose role of microrna mirna focusing mainly on stress tolerance in crop plants chapters discuss uses methods and advantages of recombinant dna technology and novel plant biotechnology applications for plant based vaccines this volume brings together knowledge about non edible plants seeds as potential sources of biodiesel production to mitigate the global energy crisis

Molecular and Laser Spectroscopy 2018-08-15

this reference text presents the state of the art in edge computing its primitives devices and simulators applications and healthcare based case studies the text provides integration of blockchain with edge computing systems and integration of edge with internet of things iot and cloud computing it will facilitate the readers to setup edge based environment and work with edge analytics it covers important topics including cluster computing fog computing networking architecture edge computing simulators edge analytics privacy preserving schemes edge computing with blockchain autonomous vehicles and cross domain authentication aimed at senior undergraduate graduate students and professionals in the fields of electrical engineering electronics engineering computer science and information technology this text discusses edge data storage security with case studies and blockchain integration with edge computing system covers theoretical methods with the help of applications use cases case studies and examples provides healthcare real time case studies are elaborated in detailed by utilizing the virtues of homomorphic encryption discusses real time interfaces devices and simulators in detail

Advances and Applications in Geospatial Technology and Earth Resources 2021-11-24

advances in mathematical chemistry and applications volume 1 highlights the emerging discipline of mathematical chemistry or more precisely discrete mathematical chemistry this volume is written by internationally renowned experts in

the field it comprises of a wise integration of mathematical and chemical concepts and covers numerous applications in the field of drug discovery bioinformatics cheminformatics computational biology and ecological health the contents of this book include chapters on mathematical structural descriptors of molecules and biomolecules topological representation of molecular structure connectivity matrices use of weighted 2d fingerprints in similarity based virtual screening and much more this ebook is a valuable resource for msc and phd students academic personnel and researchers seeking updated and critically important information on the fundamental concepts of mathematical chemistry and their applications

Botany 2021-11-22

this book contains chapters written by eminent scientists on the latest development in computer technology and applications in japan the objective of the book is to provide an awareness of the considerable advances being made by japanese scientists on the general area of information technology and in the so called fifth generation computer systems in the first chapter watanabe of the nec corporation describes advanced architecture and technology of supercomputing systems this theme is followed by nakamura of tohoku university in the next chapter another type of supercomputer for vector processing the facom vp 2000 series is then described by uchida of fujitsu ltd in chapter 3 expert systems are presented in the next two chapters by ue no and oomari of tokyo denki university and by koseki and goto of the nec corporation important applications in computer graphics are described in chapter six by ishii and mu rakami of fujitsu laboratories hayahi from the same laboratory then discusses neurocomputers in japan the final chapter by noguchi of tohoku university illustrates an important application in communications

Edge Computing 2015-10-10

materials with superhydrophobic or related properties are one of the most studied subjects from a theoretical point of view and also for the large range of possible applications for example anticorrosion antibacteria optical devices and sensors the study of natural species with special wettability has shown us the importance of surface structures and the surface energy of the resulting surface properties various strategies can be used to reproduce superhydrophobic phenomena in the laboratory general reviews on superhydrophobic properties already exist but to our knowledge do not focus on metallic and inorganic materials here we focus especially on the strategies implemented for reaching superhydrophobic or related properties using metallic and inorganic materials indeed these materials present unique properties for example thermal and mechanical resistance chemical and ageing resistance and optical transparency antireflection photoluminescence and electrical properties conducting semiconducting insulating this book will be useful for graduate students of materials chemistry and physics and for researchers in surface science nanostructures and bioinspired or biomimetic materials

Advances in Mathematical Chemistry and Applications 2013-03-13

nanotechnology advances and real life applications offers a comprehensive reference text about advanced concepts and applications in the field of nanotechnology the text written by researchers practicing in the field presents a detailed discussion of key concepts including nanomaterials and their synthesis fabrication and characterization of nanomaterials carbon based nanomaterials nano bio interface and nanoelectronics the applications of nanotechnology in the fields of renewable energy medicine and agriculture are each covered in a dedicated chapter the text will be invaluable for senior undergraduate and graduate students in the fields of electrical engineering

electronics engineering nanotechnology and nanoscience dr cherry bhargava is an associate professor and head vlsi domain at the school of electrical and electronics engineering of lovely professional university jalandhar india dr amit sachdeva is an associate professor at lovely professional university jalandhar india

Advances in Computer Technology and Applications in Japan 2008

this book discusses a variety of topics in mathematics and engineering as well as their applications clearly explaining the mathematical concepts in the simplest possible way and illustrating them with a number of solved examples the topics include real and complex analysis special functions and analytic number theory q series ramanujan s mathematics fractional calculus clifford and harmonic analysis graph theory complex analysis complex dynamical systems complex function spaces and operator theory geometric analysis of complex manifolds geometric function theory riemannian surfaces teichmüller spaces and kleinian groups engineering applications of complex analytic methods nonlinear analysis inequality theory potential theory partial differential equations numerical analysis fixed point theory variational inequality equilibrium problems optimization problems stability of functional equations and mathematical physics it includes papers presented at the 24th international conference on finite or infinite dimensional complex analysis and applications 24icfidcaa held at the anand international college of engineering jaipur 22-26 august 2016 the book is a valuable resource for researchers in real and complex analysis

Current Advances in Selenium Research and Applications 2017-10-06

Bioinspired Superhydrophobic Surfaces 2020-10-18

Nanotechnology 2017

CRISPR 2017-10-03

Advances in Real and Complex Analysis with Applications

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