Ebook free Sant gadge baba amravati university m a part i arts [PDF]

Environmental Studies (As Per Sant Gadge Baba Amravati University Syllabus) Engineering Physics Nepotism Use of LMS In Library Automation HUMAN RIGHTS: National- International Perspectives Professional Ethics for Engineers Enhancing Security in Public Spaces Through Generative Adversarial Networks (GANs) Future Trends in 5G and 6G Rhizobium Biology and Biotechnology AI Tools and Applications for Women’s Safety Cloud Computing Technologies for Smart Agriculture and Healthcare Indian Intellectual Property Rights Separation Processes Micropropagation of Medicinal Plants: Volume 2 Nanotoxicology Nanotechnological Applications in Virology Nanotoxicology for Agricultural and Environmental Applications Microbial Biodegradation and Bioremediation Sustainable Bioenergy Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes Proceedings of International Conference on Data Science and Applications Biological and Pharmaceutical Applications of Nanomaterials Designing Intelligent Healthcare Systems, Products, and Services Using Disruptive Technologies and Health Informatics Intellectual Property Issues in Nanotechnology Handbook on ICT in Developing Countries Research Trends in Artificial Intelligence: Internet of Things Limitations and Future Applications of Quantum Cryptography Nanotechnology for Sustainable Agriculture Nanobiotechnology in Diagnosis, Drug Delivery and Treatment Metal Nanoparticles in Microbiology Natural Antioxidants and Biocides from Wild Medicinal Plants Phoma: Diversity, Taxonomy, Bioactivities, and Nanotechnology Borate Phosphors Pythium Fundamentals of Data Science Impact of AI on Advancing Women's Safety Reconnoitering the Landscape of Edge Intelligence in Healthcare National conference on Applied Science and Humanities Essential Oils and Nanotechnology for Treatment of Microbial Diseases Semantic Intelligent Computing and Applications

Environmental Studies (As Per Sant Gadge Baba Amravati University Syllabus)

2009-01-01

it is a matter of both honour and pleasure for us as editors of this much awaited an edited book on the current topic like nepotism writing a preface for this book on nepotism is itself a separate and great experience actually this book is an outcome or the result of great endurance and painstaking efforts taken by all of us prof dr manoj bhagat has done a sincere job of proofreading and he has taken care of all the technical aspects from the first day of collections of all research papers and articles up to compilation of them properly for this edited book of course prof dr sanjay deosthale stood along with us in the complete process of this book his guidance proved to be fruitful as an outcome of the final copy of nepotism book it was really a laborious as well as difficult task to call a research paper or article on such a hot topic which has influenced almost all areas of life and work but ultimately we could do it with cooperation and team spirit within us i must be grateful to prof dr manoj bhagat for suggestion to work on the selected topic i e nepotism and bring it into the form of an edited book now this most debatable topic like nepotism has attracted the attention of critics and readers towards it it has not only come up as a separate branch of study in humanities social science and other correlated subjects also

Engineering Physics

2009

this book based on practical study of soul software used in academic libraries it is useful tools for all academic libraries are

Nepotism

2022-10-14

this book presents a historical view on the conceptual growth of human rights and the institutional framework for the protection of the rights of people in current indian politics it is written from the national and international perspective within this broader context the main emphasis of the research is on the function played by the national human rights commission of india ever since the organization s inception the following subjects are analyzed in depth throughout the book human rights from a theoretical standpoint the formation structure and current condition of the national human rights commission and more understanding what human rights are why people need them and why their violation threatens our fundamental survival as human beings is the goal of the book human rights national international perspectives which serves as a primer on the subject the book covers a wide variety of subjects and features critical discussions on the legal rights of women children forest tribes disabled individuals prisoners and other socially disadvantaged groups whose welfare is heavily neglected and as a result requires immediate attention these groups include women children disabled individuals prisoners and other socially disadvantaged groups in addition to covering a vast amount of ground and being an indispensable resource for teaching and research in the classroom this book educates students on the following topics what to do when human rights are infringed mechanisms of redress and how they may be used

Use of LMS In Library Automation

2023-02-12

engineering is a vital profession that has shaped the modern world and transformed countless aspects of our lives from bridges to skyscrapers from

medical devices to digital technologies engineers have been at the forefront of innovation and progress yet with this great power comes great responsibility as engineers we have an ethical obligation to use our skills and knowledge for the public good and to behave in a manner that is consistent with the highest principles of integrity honesty and accountability this book is intended as a comprehensive guide to the principles and practices of professional ethics for engineering graduate students it is designed to provide a strong foundation for understanding the ethical challenges that engineers face and to develop the skills and knowledge needed to navigate these challenges effectively the book is structured around several key themes including an overview of professional ethics ethical decision making frameworks central responsibilities of engineers and intellectual property rights and ethics in each chapter we explore the essential concepts and principles of professional ethics in engineering drawing on real world case studies and examples to illustrate the application of these principles in practice we also provide exercises and worksheets to encourage students to reflect on and apply ethical principles to their own work the goal of this book is not to provide a set of hard and fast rules but rather to encourage critical thinking reflection and ethical awareness we believe that ethical decision making is a process that requires careful consideration of a range of factors and that there are often no easy answers or simple solutions by equipping students with the skills and knowledge needed to navigate these challenges we hope to contribute to the development of a new generation of engineers who are committed to ethical conduct and the public good we would like to express our gratitude to the many colleagues students and professionals who have provided valuable feedback and insights throughout the development of this book we hope that it will serve as a valuable resource for engineering graduate students and others seeking to understand and navigate the complex ethical challenges of the engineering profession

HUMAN RIGHTS: National- International Perspectives

2023-10-16

as the demand for data security intensifies the vulnerabilities become glaring exposing sensitive information to potential threats in this tumultuous landscape generative adversarial networks gans emerge as a groundbreaking solution transcending their initial role as image generators to become indispensable guardians of data security within the pages of enhancing security in public spaces through generative adversarial networks gans readers are guided through the intricate world of gans unraveling their unique design and dynamic adversarial training the book presents gans not merely as a technical marvel but as a strategic asset for organizations offering a comprehensive solution to fortify cybersecurity protect data privacy and mitigate the risks associated with evolving cyber threats it navigates the ethical considerations surrounding gans emphasizing the delicate balance between technological advancement and responsible use

Professional Ethics for Engineers

2024-05-16

future trends in 5g and 6g challenges architecture and applications offers a comprehensive overview of basic communication and networking technologies it focuses on emerging technologies such as software defined network sdn based ad hoc networks 5g machine learning and deep learning solutions for communication and networking cloud computing etc it also includes discussions on practical and innovative applications including network security smart cities e health and intelligent systems the book addresses several key issues in sdn energy efficient systems the internet of things big data cloud computing and virtualization machine learning deep learning cryptography and 6g wireless technology and its future it provides students researchers and practicing engineers with an expert guide to the fundamental concepts challenges

architecture applications and state of the art developments in communication and networking

Enhancing Security in Public Spaces Through Generative Adversarial Networks (GANs)

2021-12-31

this book provides in depth reviews of the role of rhizobium in agriculture and its biotechnological applications individual chapters explore topics such as the occurrence and distribution of rhizobium phenotypic and molecular characteristics of rhizobium impact of rhizobium on other microbial communities in the rhizosphere n2 fixation ability of rhizobium rhizobium and biotic stress rhizobium mediated restoration of an ecosystem in silico analysis of the rhizobia pool further biotechnological perspectives of rhizobium

Future Trends in 5G and 6G

2017-09-25

in an era marked by rapid technological progress women s safety remains a pressing concern despite strides toward gender equality women continue to grapple with safety challenges in both public and private spaces enduring harassment violence and discrimination driven by entrenched societal norms and modern complexities amidst these challenges harnessing the potential of artificial intelligence ai emerges as a promising avenue to reshape the landscape of women s safety the groundbreaking book ai tools and applications for women s safety curated by experts sivaram ponnusamy vibha bora prema daigavane and sampada wazalwar delves into the transformative power of ai to address the daily safety concerns women face this timely volume explores innovative ai driven resources and applications that redefine personal security offering tailored protection through real time threat assessment and emergency response coordination with comprehensive insights spanning academia law enforcement policymaking and advocacy this book covers predictive safety analytics smart surveillance ethical considerations and more ai tools and applications for women s safety not only sheds light on the promise of ai but also paves the way for informed discourse and meaningful action ushering in a future defined by women s empowerment and security

Rhizobium Biology and Biotechnology

2024-01-24

the cloud is an advanced and fast growing technology in the current era the computing paradigm has changed drastically it provided a new insight into the computing world with new characteristics including on demand virtualization scalability and many more utility computing virtualization and service oriented architecture soa are the key characteristics of cloud computing the cloud provides distinct it services over the web on a pay as you go and on demand basis cloud computing technologies for smart agriculture and healthcare covers cloud management and its framework it also focuses how the cloud computing framework can be integrated with applications based on agriculture and healthcare features contains a systematic overview of the state of the art basic theories challenges implementation and case studies on cloud technology discusses of recent research results and future advancement in virtualization technology focuses on core theories architectures and technologies necessary to develop and understand the computing models and its applications includes a wide range of examples that uses cloud technology for increasing farm profitability and sustainable production presents the farming industry with cloud technology that allows it toaggregate analyze and share data across farms and the world includes cloud based electronic health records with privacy and security features offers suitable it solutions to the global issues in the

domain of agriculture and health care for society this reference book is aimed at undergraduate and post graduate programs it will also help research scholars in their research work this book also benefits like scientists business innovators entrepreneurs professionals and practitioners

AI Tools and Applications for Women's Safety

2021-12-29

intellectual property ip which consists of works produced by human thought is a rapidly expanding industry because of the crucial role it plays in a country s economic growth intellectual property ip has been recognized as a crucial part of the business sector in the twenty first century since it may determine a company s success or failure the same holds true for the fields of academics agriculture geographical indicators and traditional knowledge all of which rely heavily on intellectual property to advance their respective fields intellectual property not only improves a company s or person s reputation but also aids in solving social problems and can generate substantial profits it s no secret that in the modern business paradigm ideas and expertise are worth their weight in gold the value of cutting edge technologies and pharmaceutical breakthroughs stems mostly from the time and effort spent on their development and testing products like movies albums books programs and online services are often purchased for their content rather than their physical construction materials like plastic metal or paper the value of many things that were formerly considered low tech commodities such as branded apparel or novel plant kinds is now largely attributable to innovation and design therefore authors have the legal right to forbid others from making use of their works intellectual property rights are the umbrella term for these protections

Cloud Computing Technologies for Smart Agriculture and Healthcare

2023-09-04

contributed articles presented at an international conference on separation processes organized by institute of chemical engineering technology institute of technology banaras hindu university in 2009

Indian Intellectual Property Rights

2009

this volume presents information about protocols for micropropagation of more than 40 species of medicinal plants the contents combine knowledge about the scientific principles of micropropagation with state of the art updates in tissue culture techniques presented by plant scientists the readers will learn about techniques required to grow plants in challenging conditions that aim to reduce the impacts of injudicious harvesting deforestation climate change pollution urbanization and other factors that limit the ability to meet current demand general topics such as biotization and pharmaceutical investigation are also included to guide readers about the significance of these plants in research and development for new medicines the book provides protocols for micropropagation of important medicinal plants like rauvolfia serpentina catharanthus roseus withania somnifera tylophora indica bacopa monnieri aloe vera phyllanthus amarus allium sativum moringa oleifera operculina turpethum glycyrrhiza glabra pterocarpus marsupium vetiver grass ruta graveolens tinospora cordifolia kaempferia hedychium decalepis hamiltonii saraca asoca wrightia tinctoria wrightia arborea artemisia absinthium aegle marmelos atropa acuminata atropa belladonna alpinia species hedychium species and cissus species this book is a handy reference for medicinal chemists horticulturists and pharmacists who want to learn about the growth and conservation of important medicinal herbs and plants

Separation Processes

2024-03-29

this book takes a systematic approach to nanotoxicology and the developing risk factors associated with nanosized particles during manufacture and use of nanotechnology beginning with a detailed introduction to engineered nanostructures the first part of the book presents concepts and definitions of nanomaterials from quantum dots to graphene to fullerenes with detailed discussion of functionalization stability and medical and biological applications the second part critically examines methodologies used to assess cytotoxicity and genotoxicity coverage includes interactions with blood erythrocytes combinatorial and microarray techniques cellular mechanisms and ecotoxicology assessments part three describes cases studies both in vitro and in vivo for specific nanomaterials including solid lipid nanoparticles and nanostructured lipid carriers and metallic nanoparticles and metallic oxides new information is also presented on toxicological aspects of poloxamers and polymeric nanoparticles as drug carriers as well as size effects on cytotoxicity and genotoxicity didactic aspects are emphasized in all chapters making the book suitable for a broad audience ranging from advanced undergraduate and graduate students to researchers in academia and industry in all nanotoxicology materials methodologies and assessments will provide comprehensive insight into biological and environmental interactions with nanostructures provides an introduction to nanostructures actually in use describes cyto and genotoxicity methodologies and assesses their performance in comparison to common toxicity assays discusses the relation of cytotoxicity and genotoxicity to ecotoxicity presents a range of applications from biogenic silver nanoparticles to poloxamers as drug delivery systems reflecting the expanding applications of nanotechnology

Micropropagation of Medicinal Plants: Volume 2

2013-10-25

nanotechnological applications in virology explores the use of nanoparticles based technologies to fight against viruses also discussing the use of nanoparticles in the preparation of nano masks and as sanitizing agents the role of nanotechnology against hiv hepatitis influenza herpes ebola and zika using rapid detection and diagnostic techniques is included as is a brief description of sars mers the novel coronavirus and recent advancements in its treatment process other sections cover the formulation of novel nano vaccines for the treatment and control of viral infections like hiv hepatitis and covid 19 included toxicological studies of nanoparticles provide readers with a brief overview on global scenarios regarding viral infections nanotechnology is the present age technology with wide usage in different areas of medical science including drug delivery gene therapy antimicrobials biosensors and bio labelling nanoparticles play a competent role as an anti infection agent and thus act as efficient antiviral agents mitochondria as a key intracellular target of thallium toxicity presents a new hypothesis that explains the decrease in antioxidant defense in thallium poisoning in addition the book proposes a new model for studying the transport of inorganic cations across the inner mitochondrial membrane readers will learn about the toxicity of thallium and its compounds the toxicology of thallium the toxic thallium effects on cells and the effects of thallium on mitochondria this book j136 lists the pathways and mechanisms of thallium transport into cells and mitochondria this toxicity has been analyzed at both the cellular and subcellular levels the increase in human contact with the toxic trace element thallium is associated with developments in industry the release of this metal into the environment from various rocks and the use of special isotope techniques for studying the vascular bed

Nanotoxicology

2022-06-23

published as part of elsevier s series nanobiotechnology for plant protection nanotoxicology for agricultural and environmental applications provides an introduction to nanotechnology and its applications in agriculture and the environment divided into five parts this book addresses nanotechnology and regulations nanotoxicity nanotoxicity to agriculture and food nanotoxicity to the environment and risk management measures to avoid exposure students practitioners and researchers working in plant science agricultural science nanoscience and environmental chemistry alike will benefit from this necessary reference highlights the factors contributing to toxic effects of nanoparticles including shape size structure surface charge and dosage explores the mode of action and entry of nanoparticles methods of toxicity evaluation and the associated challenges describes recent developments in nanotoxicity to soil ecosystems crop plants and food systems emphasizes the impact of nanoparticles and their detoxification by plants on the nutritional quality of food and plants discusses the impact of toxicity of nanoparticles released in air soil and water and methods to reduce their effects

Nanotechnological Applications in Virology

2024-03-28

microbial biodegradation and bioremediation techniques and case studies for environmental pollution second edition describes the successful application of microbes and their derivatives for bioremediation of potentially toxic and relatively novel compounds in the environment our natural biodiversity and environment is in danger due to the release of continuously emerging potential pollutants by anthropogenic activities though many attempts have been made to eradicate and remediate these noxious elements thousands of xenobiotics of relatively new entities emerge every day thus worsening the situation primitive microorganisms are highly adaptable to toxic environments and can reduce the load of toxic elements by their successful transformation and remediation this completely updated new edition presents many new technologies and techniques and includes theoretical context and case studies in every chapter microbial biodegradation and bioremediation techniques and case studies for environmental pollution second edition serves as a single source reference and encompasses all categories of pollutants and their applications in a convenient comprehensive format for researchers in environmental science and engineering pollution environmental microbiology and biotechnology describes many novel approaches of microbial bioremediation including genetic engineering metagenomics microbial fuel cell technology biosurfactants and biofilm based bioremediation introduces relatively new hazardous elements and their bioremediation practices including oil spills military waste water greenhouse gases polythene wastes and more provides the most advanced techniques in the field of bioremediation including insilico approach microbes as pollution indicators use of bioreactors techniques of pollution monitoring and more completely updated and expanded to include topics and techniques such as genetically engineered bacteria environmental health nanoremediation heavy metals contaminant transport and in situ and ex situ methods includes theoretical context and case studies within each chapter

Nanotoxicology for Agricultural and Environmental Applications

2021-11-24

sustainable bioenergy advances and impacts presents a careful overview of advances and promising innovation in the development of various bioenergy technologies it covers the production of bio jet fuel algal biofuels recent

developments in bioprocesses nanotechnology applications for energy conversion the role of different catalysts in the production of biofuels and the impacts of those fuels on society the book brings together global experts to form a big picture of cutting edge research in sustainable bioenergy and biofuels it is an ideal resource for researchers students energy analysts and policymakers who will benefit from the book s overview of impacts and innovative needs explores the most recent advances in biofuels and related energy systems including innovations in catalysts and biocatalysts provides an overview of the impacts of bioenergy and its sustainability aspects discusses real life cases of implementation of bioenergy systems on an industrial scale

Microbial Biodegradation and Bioremediation

2019-05-30

every second users produce large amounts of image data from medical and satellite imaging systems image mining techniques that are capable of extracting useful information from image data are becoming increasingly useful especially in medicine and the health sciences biomedical image analysis and mining techniques for improved health outcomes addresses major techniques regarding image processing as a tool for disease identification and diagnosis as well as treatment recommendation highlighting current research intended to advance the medical field this publication is essential for use by researchers advanced level students academicians medical professionals and technology developers an essential addition to the reference material available in the field of medicine this timely publication covers a range of applied research on data mining image processing computational simulation data visualization and image retrieval

Sustainable Bioenergy

2015-11-03

this book gathers outstanding papers presented at the international conference on data science and applications icdsa 2022 organized by soft computing research society scrs and jadavpur university kolkata india from 26 to 27 march 2022 it covers theoretical and empirical developments in various areas of big data analytics big data technologies decision tree learning wireless communication wireless sensor networking bioinformatics and systems artificial neural networks deep learning genetic algorithms data mining fuzzy logic optimization algorithms image processing computational intelligence in civil engineering and creative computing

Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes

2023-02-16

biological and pharmaceutical applications of nanomaterials presents the findings of cutting edge research activities in the field of nanomaterials with a particular emphasis on biological and pharmaceutical applications divided into four sections nanomaterials for drug delivery antimicrobial nanomaterials nanomaterials in biosensors and safety of nanomaterials this book covers topics such as stimuli responsive nanostructured silica matrixes gold nanoparticles and liposomes for targeting drug delivery and dental applications describes the use of nanocarriers and nanoparticles as cancer and peptide therapeutics the influence of surface characteristics on microbial adhesion and the latest developments in antimicrobial nanostructured polymers for medical applications discusses recent advances in nanodiagnostic techniques for infectious agents chromogenic biosensors for pathogen detection electrochemical biosensors for detecting dna damage and genotoxicity and molecular imaging with quantum dots including surface modifications by polymers for biosensing applications

featuring contributions from field experts and researchers in industry and academia biological and pharmaceutical applications of nanomaterials provides state of the art information on nanomaterials and their use in drug delivery infection control and biomedicine

Proceedings of International Conference on Data Science and Applications

2015-06-26

disruptive technologies are gaining importance in healthcare systems and health informatics by discussing computational intelligence iot blockchain cloud and big data analytics this book provides support to researchers and other stakeholders involved in designing intelligent systems used in healthcare its products and its services this book offers both theoretical and practical application based chapters and presents novel technical studies on designing intelligent healthcare systems products and services it offers conceptual and visionary content comprising hypothetical and speculative scenarios and will also include recently developed disruptive holistic techniques in healthcare and the monitoring of physiological data metaheuristic computational intelligence based algorithms for analysis diagnosis and prevention of disease through disruptive technologies are also provided designing intelligent healthcare systems products and services using disruptive technologies and health informatics is written for researchers academicians and professionals to bring them up to speed on current research endeavours as well as to introduce hypothetical and speculative scenarios

Biological and Pharmaceutical Applications of Nanomaterials

2022-08-08

intellectual property issues in nanotechnology focuses on the integrated approach for sustained innovation in various areas of nanotechnology the theme of this book draws to a great extent on the industrial and socio legal implications of intellectual property rights for nanotechnology based advances the book takes a comprehensive look not only at the role of intellectual property rights in omics based research but also at the ethical and intellectual standards and how these can be developed for sustained innovation this book attempts to collate and organize information on current attitudes and policies in several emerging areas of nanotechnology adopting a unique approach this book integrates science and business for an inside view of the industry peering behind the scenes it provides a thorough analysis of the foundations of the present day industry for students and professionals alike

Designing Intelligent Healthcare Systems, Products, and Services Using Disruptive Technologies and Health Informatics

2020-09-08

handbook on ict in developing countries next generation ict technologies is the second volume of the handbook of ict in developing countries the first volume was on the potential implementation and service delivery of the forth coming 5g networks here the focus is on the new technologies and services enabled by 5g networks or broadband internet networks including artificial intelligence ai machine learning augmented reality internet of things iot autonomous driving blockchain solutions cloud solutions etc some of these are already globally experiencing growth in the existing networks and all of them are expected to grow substantially in the future examples currently 5 of global organizations

have fully adopted ai but the penetration is expected to increase rapidly before 2025 iot with 20 35 billion devices connected in 2017 is estimated to show 75 44 billion devices connected in 2025 the expected growth is based on delivering of new value to businesses and citizens it is however not obvious that this growth will also occur in developing countries currently the digital divide between developing countries and developed countries is widening this is mostly due to the lack of infrastructure and low level of awareness by the businesses and citizens of the value made possible by the new technologies for developing countries the book discusses the potentials of the new technologies for developing countries and the need for market interventions that will facilitate the demand and supply side of the market it is designed for a broad audience including practitioners researchers academics policy makers and industry players and influencers the language and approach to the handbook is a combination of the academic writing style and professional reviews

Intellectual Property Issues in Nanotechnology

2022-09-01

stay informed about recent trends and groundbreaking research driving innovation in the ai iot landscape ai a simulated form of natural intelligence within machines has revolutionized various industries simplifying daily tasks for end users this book serves as a handy reference offering insights into the latest research and applications where ai and iot intersect the book includes 12 edited chapters that provide a comprehensive exploration of the synergies between ai and iot the contributors attempt to address engineering opportunities and challenges in different fields key topics ai and iot in smart farming explore how these technologies enhance crop yield and sustainability revolutionizing agricultural practices aiot artificial intelligence of things understand the amalgamation of ai and iot and its applications particularly focusing on smart cities and agriculture smart healthcare and predictive disease analysis uncover the crucial role of ai and iot in early disease prediction and improving healthcare outcomes applications of ai in various sectors explore how ai contributes to sustainable development sentiment analysis education autonomous vehicles fashion virtual trial rooms and more each chapter has structured sections with summaries and reference lists making it an invaluable resource for researchers professionals and enthusiasts keen on understanding the potential and impact of these technologies in today s rapidly evolving world

Handbook on ICT in Developing Countries

2023-12-21

the concept of quantum computing is based on two fundamental principles of quantum mechanics superposition and entanglement instead of using bits qubits are used in quantum computing which is a key indicator in the high level of safety and security this type of cryptography ensures if interfered with or eavesdropped in qubits will delete or refuse to send which keeps the information safe this is vital in the current era where sensitive and important personal information can be digitally shared online in computer networks a large amount of data is transferred worldwide daily including anything from military plans to a country s sensitive information and data breaches can be disastrous this is where quantum cryptography comes into play by not being dependent on computational power it can easily replace classical cryptography limitations and future applications of quantum cryptography is a critical reference that provides knowledge on the basics of iot infrastructure using quantum cryptography the differences between classical and quantum cryptography and the future aspects and developments in this field the chapters cover themes that span from the usage of quantum cryptography in healthcare to forensics and more while highlighting topics such as 5g networks image processing algorithms and quantum machine learning this book is ideally intended for security

professionals iot developers computer scientists practitioners researchers academicians and students interested in the most recent research on quantum computing

Research Trends in Artificial Intelligence: Internet of Things

2020-12-18

this new volume explores the important and cutting edge roles that nanotechnology can play in facilitating sustainable agriculture it provides recent updates on nanobiotechnology in soil science plant breeding food science agricultural tool design and utilization as well as the impacts of such approaches on properties of soils and plants the book looks at the use of nanotechnology for crop production and protection in the creation and application of pesticides to enhance soil fertility and soil health as a mitigating factor of plant abiotic stress and more the volume explores emerging nanotechnological tools and techniques for crop improvement that include space inspired speed breeding for crop improvement nanoparticles as sensing materials plant nanobionics nanopore dna sequencing and more

Limitations and Future Applications of Quantum Cryptography

2023-09-08

presents nanobiotechnology in drug delivery and disease management featuring contributions from noted experts in the field this book highlights recent advances in the nano based drug delivery systems it also covers the diagnosis and role of various nanomaterials in the management of infectious diseases and non infectious disorders such as cancers and other malignancies and their role in future medicine nanobiotechnology in diagnosis drug delivery and treatment starts by introducing how nanotechnology has revolutionized drug delivery diagnosis and treatments of diseases it then focuses on the role of various nanocomposites in diagnosis drug delivery and treatment of diseases like cancer alzheimer s disease diabetes and many others next it discusses the application of a variety of nanomaterials in the diagnosis and management of gastrointestinal tract disorders the book explains the concept of nanotheranostics in detail and its role in effective monitoring of drug response targeted drug delivery enhanced drug accumulation in the target tissues sustained as well as triggered release of drugs and reduction in adverse effects other chapters cover aptamer incorporated nanoparticle systems magnetic nanoparticles theranostics and vaccines toxicological concerns of nanomaterials used in nanomedicine and more provides a concise overview of state of the art nanomaterials and their application like drug delivery in infectious diseases and non infectious disorders highlights recent advances in the nano based drug delivery systems and role of various nanomaterials introduces nano based sensors which detect various pathogens covers the use of nanodevices in diagnostics and theranostics nanobiotechnology in diagnosis drug delivery and treatment is an ideal book for researchers and scientists working in various disciplines such as microbiology biotechnology nanotechnology pharmaceutical biotechnology pharmacology pharmaceutics and nanomedicine

Nanotechnology for Sustainable Agriculture

2020-12-02

following an introduction to biogenic metal nanoparticles this book presents how they can be biosynthesized using bacteria fungi and yeast as well as their potential applications in biomedicine it is shown that the synthesis of nanoparticles using microbes is eco friendly and results in reproducible metal

nanoparticles of well defined sizes shapes and structures this biotechnological approach based on the process of biomineralization exploits the effectiveness and flexibility of biological systems chapters include practical protocols for microbial synthesis of nanoparticles and microbial screening methods for isolating a specific nanoparticle producer as well as reviews on process optimization industrial scale production biomolecule nanoparticle interactions magnetosomes silver nanoparticles and their numerous applications in medicine and the application of gold nanoparticles in developing sensitive biosensors

Nanobiotechnology in Diagnosis, Drug Delivery and Treatment

2011-04-02

this book provides an up to date treatment of antioxidant and biocidal compounds mainly from latin american plants new antimicrobials insecticides and antioxidants are compiled in a single source for the first time based on the research and knowledge of several internationally renowned research groups this book is organized in three sections part i provides a general overview and perspectives on antioxidant medicinal and biocidal plant compounds part ii provides information on plant antioxidants isolated from a wide range of species and part iii describes insecticidal antimicrobial and other biocidal activities based on peptides phytoecdysteroids alkaloids polyphenols terpenoids and other allelochemicals

Metal Nanoparticles in Microbiology

2013

the book covers the taxonomy diversity bioactivity and nanotechnology involved in the study of the genus phoma it presents the most recent molecular taxonomic approach secondary metabolites different bioactivities combating microbial threats and its use in nanotechnology from a basic research to an applied perspective expert contributors provide the latest research and applications to present thorough coverage of this important genus in human and plant pathology and the disease management

Natural Antioxidants and Biocides from Wild Medicinal Plants

2021-11-19

borate based phosphors have attracted much attention due to their high optical stability low cost synthesis via conventional and non conventional methods and resulting technology to be environmentally friendly this book discusses the structural and chemical parameters of borates as a phosphor including suitable synthesis methods and proper characterization of materials further it includes applications of borate materials such as photoluminescence uv application uvu application photo therapy application and radiological applications features provides information on borate phosphors and their structure aids selection of proper structural and functional borates used in applications based on phosphor technology discloses the modification in properties of borate functional group upon mixing or substitution with other metallic functional groups discusses biological applications such as photo thermal heating based therapy temperature sensors imaging and diagnosis includes current trends and innovations limitations and challenges prospects and scope in each chapter this book is aimed at researchers and graduate students in inorganic materials luminescent optical materials materials science engineering and physics

Phoma: Diversity, Taxonomy, Bioactivities, and Nanotechnology

2022-05-12

pythium is one of the most important phytopathogens causing significant damage to agriculture forest and nurseries etc it is an unseen enemy of the root zone of various plants and hence considered as hidden terror for a number of plants an accurate diagnosis and identification of pythium causing various infections in plants is very important because it is often confused with several other fungi pythium infections are difficult to control once they have set in therefore its effective and ecofriendly management is of paramount importance in addition there are many reports on pythium causing infections in human beings and animals the present book on pythium focuses on various aspects which mainly include pathogenesis technological developments in detection and diagnosis and its management key features includes identification of pythium spp by traditional and molecular methods deals with different diseases caused by pythium spp describes the role of pythium in mammalian diseases incorporates various management strategies discusses emerging role of nanotechnological tools for the management of pythium diseases

Borate Phosphors

2020-01-28

fundamentals of data science is designed for students academicians and practitioners with a complete walkthrough right from the foundational groundwork required to outlining all the concepts techniques and tools required to understand data science data science is an umbrella term for the non traditional techniques and technologies that are required to collect aggregate process and gain insights from massive datasets this book offers all the processes methodologies various steps like data acquisition pre process mining prediction and visualization tools for extracting insights from vast amounts of data by the use of various scientific methods algorithms and processes readers will learn the steps necessary to create the application with sql nosql python r matlab octave and tablue this book provides a stepwise approach to building solutions to data science applications right from understanding the fundamentals performing data analytics to writing source code all the concepts are discussed in simple english to help the community to become data scientist without much pre requisite knowledge features simple strategies for developing statistical models that analyze data and detect patterns trends and relationships in data sets complete roadmap to data science approach with dedicatedsections which includes fundamentals methodology and tools focussed approach for learning and practice various data science toolswith sample code and examples for practice information is presented in an accessible way for students researchers and academicians and professionals

Pythium

2021-09-26

women encounter multifaceted threats ranging from personal safety hazards to discrimination deeply embedded in societal structures the existing landscape demands innovative strategies to ensure women can participate fully in society without fear or impediment traditional systems often fall short necessitating a paradigm shift in our approach to women s safety impact of ai on advancing women s safety emerges as a groundbreaking solution to address the pervasive challenges they face from the shadows of harassment to systemic biases in justice systems women navigate a complex landscape this book delves into the pressing issues unveiling a visionary approach that leverages artificial intelligence to create tangible transformative solutions

Fundamentals of Data Science

2024-02-16

the revolution in healthcare as well as demand for efficient real time healthcare services are driving the progression of edge computing ai mediated techniques deep learning and iot applications for healthcare industries and cloud computing edge computing helps to meet the demand for newer and more sophisticated healthcare systems that are more personalized and that match the speed of modern life with applications of edge computing automated intelligence and intuitions are incorporated into existing healthcare analysis tools for identifying forecasting and preventing high risk diseases reconnoitering the landscape of edge intelligence in healthcare provides comprehensive research on edge intelligence technology with the emphasis on application in the healthcare industry it covers all the various areas of edge intelligence for data analysis in healthcare looking at the emerging technologies such as ai based techniques machine learning iot cloud computing and deep learning with illustrations of the design implementation and management of smart and intelligent healthcare systems chapters showcase the advantages and highlights of the adoption of the intelligent edge models toward smart healthcare infrastructure the book also addresses the increased need for a high level of medical data security while transferring real time data to cloud based architecture a matter of prime concern for both patient and doctor topics include edge intelligence for wearable sensor technologies and their applications for health monitoring the various edge computing techniques for disease prediction e health services and e security solutions through iot devices that aim to improve the quality of care for transgender patients smart technology in ambient assisted living the role of edge intelligence in limiting virus spread during pandemics neuroscience in decoding and analysis of visual perception from the neural patterns and visual image reconstruction and more the technology addressed include energy aware cross layer routing protocol ecrp omkelm ids technique graphical user interface gui iost an ultra fast decentralized blockchain platform etc this volume will be helpful to engineering students research scholars and manufacturing industry professionals in the fields of engineering applications initiatives on ai machine learning and deep learning techniques for edge computing

Impact of AI on Advancing Women's Safety

2024-04-23

there has been emergence of multidrug resistance problem all over the world due to overuse or underuse of antibiotics most microbes including bacteria fungi protozoans and others have developed resistance to antibiotics and therefore this problem is now recognized to be of global concern ubiquitous occurrence of multidrug resistant bacteria decreases effectiveness of current treatment which results in thousands of deaths all over the world hence investigations for new alternatives and novel strategies are urgently needed to address the problem of multidrug resistance the antimicrobial potential of essential oils and metallic nanoparticles represent an effective solution for microbial resistance moreover the use of essential oils in combination with metallic nanoparticles may exert synergistic antimicrobial effects and would be a novel approach essential oils eos are volatile natural aromatic oily liquids that can be obtained from several parts of plants especially the aerial ones such as leaves and flowers they are derived from complex metabolic pathways in order to protect plants from diverse pathogenic microorganisms in fact the bioactivity of eos have been confirmed by several studies which have demonstrated their antibacterial antiviral anti inflammatory antifungal antimutagenic anticarcinogenic and antioxidant properties nanotechnology is one of the most important and emerging technologies which has brought about a technological revolution in the world it has enormous applications in the field of medicine nanoparticles are very important tools in curing different diseases in general and microbial diseases

in particular due to their significantly novel and improved chemical physical and biological properties and high surface area to volume ratio among these metal nanoparticles are known to play pivotal role in various biomedical applications in this context nanoparticles such as silver have shown their potential and could emerge as the new generation of antimicrobials silver nanoparticles have broad spectrum biological activities and hence are used in many biomedical applications the various biomedical applications of silver nanoparticles include treatment of wounds burns in water disinfecting systems in nanobased bone implantations in dentistry for the development of dental materials and as antibacterial antivirals anti protozoals anti arthropods and anticancerous agents apart from silver noble metal nanoparticles like gold and platinum and other nanoparticles copper oxides of different metals etc have been also the materials of choice for many scientists for their biological applications the book will be of interest to chemists microbiologists biotechnologist food technologists nanotechnologists pharmacologists clinicians and those interested in nature cure students will find this book useful and reader friendly

Reconnoitering the Landscape of Edge Intelligence in Healthcare

2017-10-03

National conference on Applied Science and Humanities

2023-12-18

Essential Oils and Nanotechnology for Treatment of Microbial Diseases

Semantic Intelligent Computing and Applications

- face2face elementary second edition students Full PDF
- sap fico foreign currency revalutaion configuration guide (PDF)
- imovie to idvd chapters .pdf
- irs form 8938 continuation sheet (PDF)
- multinational business finance solutions manual [PDF]
- history of modern psychology 4th edition (PDF)
- rma diagnostic assessment questions .pdf
- class ix lesson 3 geography with answers [PDF]
- leaving certificate chemistry folens [PDF]
- ghost in the shell readme 1995 2017 (Download Only)
- fire safety answers (Download Only)
- web analytics an hour a day avinash kaushik (PDF)
- benzalkonium chloride for system suitability crs (Download Only)
- chapter 18 assessment answers us history Copy
- bgb leicht gemacht heinz nawratil me Copy
- plane discere per i licei con e con espansione online 2 Copy
- history alive 6th grade chapter 29 (PDF)
- the good women of the parish gender and religion after the black death the middle ages series (Download Only)
- cingular 2125 user guide (2023)
- introduction to probability and statistics for engineers scientists solutions (2023)
- government in america 15th edition chapter test (PDF)
- macbeth testo inglese a fronte Full PDF
- every manager s desk reference (Download Only)
- deans list ten strategies for college success (Download Only)
- mustang mtl20 owners manual [PDF]