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Data Science and Analytics Phytoremediation Potential of Perennial Grasses Proceedings of Integrated Intelligence Enable Networks and Computing Biopolymer-Based Nano Films Phoma: Diversity, Taxonomy, Bioactivities, and
Nanotechnology Pharmaceutical industry 4.0: Future, Challenges & Application A Handbook on Teaching & Research Aptitude (General Paper -I of UGC-NET/SET/JRF & PET Exams) Fundamentals of Data Science Indian
Constitutional Law Cognitive Radio Multifunctional Hybrid Nanomaterials for Sustainable Agri-food and Ecosystems Intellectual Property Right Essential Oils and Nanotechnology for Treatment of Microbial Diseases Magnetic
Nanoparticles in Human Health and Medicine AI Tools and Applications for Women's Safety Flood Forecasting and Hydraulic Structures Groundwater Resources Development and Planning in the Semi-Arid Region
Nanobiotechnology in Diagnosis, Drug Delivery and Treatment Innovations, Disruptions and Future Trends in the Global Construction Industry Sustainability of Natural Resources Microservices in Big Data Analytics
Nanotoxicology for Agricultural and Environmental Applications U.G.C. Care Listed Research Article Trends Of Pure Science And Applied Disciplines In Higher Education System In India And Abroad During Covid-19 Lockdown
Period Intelligent Computing and Networking Metal Nanoparticles in Pharma Handbook of Research on Quantum Computing for Smart Environments The Republican Ethic: July 2017-July 2018 Nanotechnology Applied To
Pharmaceutical Technology Online Learning Systems The "Essence" of Network Security: An End-to-End Panorama Computing and Network Sustainability Solid And Liquid Waste Management

Cloud Computing 2019-01-03

in the era of the internet of things and big data cloud computing has recently emerged as one of the latest buzzwords in the computing industry it is the latest evolution of computing where its resources are offered as services cloud computing provides on demand scalable device independent and reliable services to its users the exponential growth of digital data bundled with the needs of analysis processing and storage and cloud computing has paved the way for a cheap secure and omnipresent computing framework allowing for the delivery of enormous computing and storage capacity to a diverse community of end recipients clouds are distributed technology platforms that leverage sophisticated technology innovations to provide highly scalable and resilient environments that can be remotely utilized by organizations in a multitude of powerful ways the term cloud is often used as a metaphor for the internet and can be defined as a new type of utility computing that basically uses servers that have been made available to third parties via the internet

Nanochemistry 2023-02-24

this book encompasses the fundamental concepts of nanochemistry that involve the self assembly of nanostructures surface stabilization and functionalization of nanoparticles it is a review of the work of world renowned scientists and is the first of its kind that gives a detailed fundamental understanding of physical chemical and biological methods of nanoparticle synthesis there is a comprehension of different characterization techniques of nanoparticles this book for the first time explains applications of such nanochemicals in nanomedicine nanoimmunomedicine lab on a chip organ on a chip bioimplants cyborgs hydrogen storage electrochemical splitting of water and construction industries

Widows of Vidarbha 2018-01-25

vidarbha the parched heartland of central india has become the foremost site of farmer suicides in the country these suicides are the most striking indictment of the neglect of agriculture by the state but the story of the farmers distress does not end with their death it lives on in the experience of their widows who struggle to survive in the shadows widows of vidarbha tells the story of 16 such widows who have been invisible to the state the community and even their families and talks of their lost dreams their diminished worldviews and their helpless surrender to the conveniences of patriarchy these narratives throw light on the dark and desperate corners of their invisible world one that reflects the state of farm widows across the country

Colloids 2021-09-08

colloids are submicron particles that are ubiquitous in both natural and industrial products colloids and colloidal systems play a significant role in human health as well as commercial and industrial situations colloids have important applications in medicine sewage disposal water purification mining photography electroplating agriculture and more this book gathers recent research from experts in the field of colloids and discusses several aspects of colloid morphology synthesis and applications the book is divided into three sections that cover different techniques for the synthesis of colloids the structure dynamic and stability of colloids and applications of colloidal particles respectively

Proceedings of International Conference on Big Data, Machine Learning and their Applications 2020-12-22

this book contains high quality peer reviewed papers of the international conference on big data machine learning and their applications icbma 2019 held at motilal nehru national institute of technology allahabad prayagraj india during 29-31 may 2020 the book provides significant contributions in a structured way so that prospective readers can understand how these techniques are used in finding solutions to complex engineering problems the book covers the areas of big data machine learning bio inspired algorithms artificial intelligence and their applications

Research Methodology 2019-01-30

this book offers a design research methodology intended to improve the quality of design research its academic credibility industrial significance and societal contribution by enabling more thorough efficient and effective procedures

Ethnobotany 2019-01-15

ethnobotany local knowledge and traditions discusses various plants that have actually been used in traditional medicine for a specific ailment it describes the biological effectiveness activities related to each sickness which have been scientifically verified this book will also discuss the bioactivities established determined that are promising and have potential finally this book will be an appropriate consultation tool for scientists professionals experts such as ethnobotanists botanists cell molecular biologists chemists pharmacists pharmacologists environmentalists ecologists

2018-03-19

1994

Data Science and Analytics 2018-03-07

this book constitutes the refereed proceedings of the 4th international conference on recent developments in science engineering and technology redset 2017 held in gurgaon india in october 2017 the 66 revised full papers presented were carefully reviewed and selected from 329 submissions the papers are organized in topical sections on big data analysis data centric programming next generation computing social and web analytics security in data science analytics

Phytoremediation Potential of Perennial Grasses 2020-03-27

phytoremediation potential of perennial grasses provides readers with the knowledge to select specific perennial grass species according to site specific needs in addition it demonstrates the potential opportunities for grass based phytoremediation to yield phytoproducts especially biomass based bioenergy and aromatic essential oils as a green economy while in the process of remediating contaminated sites the book brings together recent and established knowledge on different aspects of grass based phytoremediation providing this information in a single source that offers a cutting edge synthesis of scientific and experiential knowledge on polluted site restoration that is useful for both practitioners and scientists in environmental science and ecology provides a holistic approach to grass based phytoremediation covering the ecological economic and social issues related to its management addresses the key role that grass based phytoremediation plays in maintaining ecosystem services in polluted sites includes strategies to mitigate costs related to the phytoremediation of polluted sites

Proceedings of Integrated Intelligence Enable Networks and Computing 2021-04-23

this book presents best selected research papers presented at the first international conference on integrated intelligence enable networks and computing iienc 2020 held from may 25 to may 27 2020 at the institute of technology gopeshwar india government institute of uttarakhand government and affiliated to uttarakhand technical university the book includes papers in the field of intelligent computing the book covers the areas of machine learning and robotics signal processing and internet of things big data and renewable energy sources

Biopolymer-Based Nano Films 2021-02-02

biopolymer based nano films applications in food packaging and wound healing covers a variety of biofilms including active biofilms nisin silver nano films silk fibroin based composite films lignocellulose cellulose based biofilms carboxymethyl cellulose coated polypropylene hybrid film loaded antimicrobials chitosan hybrid systems pullulan and biopolymers films the applications of these nano biofilms in different fields particularly in food packaging wound healing and as potential antimicrobials against new emerging and multidrug resistant microbes are also discussed this is an important resource for researchers in the fields of pharmacology nanotechnology microbiology biotechnology and for clinicians the possibility of associating nanotechnology with biotechnology helps with the creation of innovative new products and the development of processes at the molecular level within this context nanobiotechnology advances and revolutionizes several scientific fields in the development of new technologies and products it is also necessary to develop platforms that allow the specific application and delivery of compounds actives in a controlled specific and non toxic way covers a variety of biofilms outlines the fundamental properties and major applications of nanostructured biofilms associates nanotechnology with biotechnology and how they can help with the creation of innovative new products and the development of processes at the molecular level

Phoma: Diversity, Taxonomy, Bioactivities, and Nanotechnology 2021-11-19

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

Pharmaceutical industry 4.0: Future, Challenges & Application 2023-12-14

the pharmaceutical industry is on the cusp of a new age with the need for personalized therapy more complex production processes smaller batch sizes and rising manufacturing costs it is necessary to continuously adapt to the rapidly changing environment using novel technology and improved operational efficiency and flexibility to achieve this intelligent manufacturing seems to be a definite answer pharma 4.0 is a framework for adapting digital strategies to the unique contexts of pharmaceutical manufacturing this book provides a deep insight into key technologies that will modernize pharmaceutical manufacturing and facilitate digital transformation throughout the book we discuss technologies application and challenges for applying digital technology in pharmaceutical industry including focus on an overview of industry 4.0 and its application in the pharmaceutical field most recent advances in the pharmaceutical industry understanding the concepts of emerging technology trends for drug discovery

A Handbook on Teaching & Research Aptitude (General Paper -I of UGC-NET/SET/JRF & PET Exams) 2022-10-09

preface ugc net exam pattern 2022 has been released by national testing agency nta along with the official notification as per the ugc net 2022 exam pattern the exam consists of two papers paper 1 and paper 2 both papers are comprised of objective type multiple choice questions mcqs there is no break between paper 1 and 2 the exam will be conducted in computer based test cbt mode the medium of the ugc net question paper is in english and hindi languages only till december 2018 the ugc net exam pattern was such that the test consisted of two papers paper 1 and 2 that were conducted in two different sessions candidates had to complete both the papers paper 1 and 2 in a duration of one and two hours respectively however in june 2019 nta changed the exam pattern as per which candidates now have to give both the papers in a single three hour duration in ugc net paper 1 the official website of nta informs the questions will be generic in nature intending to assess the teaching research aptitude of the candidate it will primarily be designed to test reasoning ability comprehension divergent thinking and general awareness of the candidate this book a handbook for general paper on teaching research aptitude paper i of ugc net pet exams a crash course for all aspiring students for all 101 subjects is an outcome of not just efforts from the authors but contributions by many research scholars we take this opportunity to thank all those who supported in publication of this book many research scholars have been kind enough to share their research works in form of video sessions on teaching research aptitude power point presentations mcqs in google from etc so that a larger section of the aspiring students can take a guideline in preparing for the exams this book also contains useful qr codes for direct link to various folders and files on the drive for syllabi for ugc net paper i various mcq s on different open source websites we owe to many authors and websites whose writings formed the basis for this book our special acknowledgment and thanks to indira gandhi open university new delhi and their open source websites ignou ac in egyptankosh ac in we also take this opportunity to thank amazon and kindle publishing for the publication of this book at the end we would like to say that there is always a room for improvement in whatever we do we would appreciate any suggestions and feedback regarding this book from the readers on mukulburghate gmail com so that the book can be made more interesting and meaningful dr mukul burghate i be fie m com mba set net dr indu mazumdar i mba dtm net dr ram panchariya i mba m com net dr ninad gawande i mba net

Fundamentals of Data Science 2021-09-26

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 tablua 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 dedicated sections which includes fundamentals methodology and tools focussed approach for learning and practice various data science tools with sample code and examples for practice information is presented in an accessible way for students researchers and academicians and professionals

Indian Constitutional Law 2023-07-26

the indian constitution is the country s primary and highest legislation it outlines the basic structures of the indian government including its guiding principles the laws that govern it and the authorities it is vested with the rights and responsibilities of its residents are spelled out in detail it has the longest constitution in the world dr b r ambedkar the committee s chairman and a primary architect of the indian constitution penned the document s bulk on december 9th 1946 constituent assembly convened for the first time on december 11 dr rajendra prasad was elected as the permanent chairman of india s sovereign constituent assembly the indian constitution gives constitutional primacy instead of parliamentary supremacy since it was formed by the constituent assembly and not the parliament in force since january 26 1950 it was adopted by the indian constituent assembly on november 26 1949 after the government of india act of 1935 was replaced by the indian constitution the dominion of india became the republic of india the indian constitution s opening prologue is included this introductory section of our constitution serves as a compass for all americans freedom justice and equality are promised to the people of india who live under a secular socialist democratic government in this document it was during the 1976 emergency that the prologue was changed to incorporate the words socialist and secular

Cognitive Radio 2020-04-16

globally considered as one of the key technologies in the field of wireless communications cognitive radio has the capability to solve the issues related to radio spectrum scarcity with the help of dynamic spectrum allocation it discusses topics including software defined radio architecture linear predictive coding variance fractal compression optimal codec design for mobile communication system digital modulation techniques spectrum sensing in cognitive radio networks and orthogonal frequency division multiplexing in depth the text is primarily written for senior undergraduate and graduate students in learning experimental techniques designing and implementing models in the field wireless communication

Multifunctional Hybrid Nanomaterials for Sustainable Agri-food and Ecosystems 2020-04-14

multifunctional hybrid nanomaterials for sustainable agrifood and ecosystems shows how hybrid nanomaterials hnms are being used to enhance agriculture food and environmental science the book discusses the synthesis and characterization of hnms before exploring agrifoods and environmental functions it shows how novel hnms are being used for the detection and separation of heavy metal ions for destroying and sensing of insecticides in managed release fertilizer and pesticide formulations plant protection plant promotions purification detection and to control mycotoxins further the book describes the use of silica based total nanosystems carbon nanotubes nanocellulose based and polymer nanohybrids for agricultural and biological applications this book is an important reference source for materials scientists engineers and food scientists who want to gain a greater understanding on how multifunctional nanomaterials are being used for a range of agricultural and environmental applications outlines the major nanomaterial types that are being used in agriculture explains why the properties of multifunctional nanomaterials are particularly efficient for use in agriculture assesses the major challenges of using multifunctional nanomaterials on an industrial scale

Intellectual Property Right 2017-10-05

intellectual property has become known as a subject of deliberate study in recent times emergence of strong intellectual property regime and its global impact has opened endless opportunities this book defines all aspects of the subject and covers latest developments in the field of ipr the book comprises analytical study of various branches of iprs such as copyright trade mark industrial designs act cyber crimes and introduction to the leading international instruments concerning intellectual property rights ie gatt gats the berne convention universal copyright convention the paris convention trips the world intellectual property rights organization wipo and the

unesco this book is very informative and knowledge generator to the readers the text covers the syllabus of all major indian universities and caters to the needs of indian students this book is useful for students academicians and scholars from different disciplines including law science and engineering pharmacy humanities arts literature drama music and many other fields the book is also useful for people working in the corporate world

Essential Oils and Nanotechnology for Treatment of Microbial Diseases 2017-10-03

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

Magnetic Nanoparticles in Human Health and Medicine 2021-11-22

magnetic nanoparticles in human health and medicine explores the application of magnetic nanoparticles in drug delivery magnetic resonance imaging and alternative cancer therapy magnetic nanoparticles in human health and medicine addresses recent progress in improving diagnosis by magnetic resonance imaging mri and using non invasive and non toxic magnetic nanoparticles for targeted drug delivery and magnetic hyperthermia focusing on cancer diagnosis and alternative therapy the book covers both fundamental principles and advanced theoretical and experimental research on the magnetic properties biocompatibilization biofunctionalization and application of magnetic nanoparticles in nanobiotechnology and nanomedicine chapters written by a panel of international specialists in the field of magnetic nanoparticles and their applications in biomedicine cover magnetic hyperthermia mht mri contrast agents biomedical imaging modeling and simulation nanobiotechnology toxicity issues and more readers are provided with accurate information on the use of magnetic nanoparticles in diagnosis drug delivery and alternative cancer therapeutics featuring discussion of current problems proposed solutions and future research directions topics include current applications of magnetic iron oxide nanoparticles in nanomedicine and alternative cancer therapy drug delivery magnetic resonance imaging superparamagnetic hyperthermia as alternative cancer therapy magnetic hyperthermia in clinical trials and simulating the physics of magnetic particle heating for cancer therapy this comprehensive volume covers both general research on magnetic nanoparticles in medicine and specific applications in cancer therapeutics discusses the use of magnetic nanoparticles in alternative cancer therapy by magnetic and superparamagnetic hyperthermia explores targeted medication delivery using magnetic nanoparticles as a future replacement of conventional techniques reviews the use of mri with magnetic nanoparticles to increase the diagnostic accuracy of medical imaging magnetic nanoparticles in human health and medicine is a valuable resource for researchers in the fields of nanomagnetism magnetic nanoparticles nanobiomaterials nanobioengineering biopharmaceuticals nanobiotechnologies nanomedicine and biopharmaceuticals particularly those focused on alternative cancer diagnosis and therapeutics

AI Tools and Applications for Women's Safety 2024-01-24

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

Flood Forecasting and Hydraulic Structures 2023-09-25

this book comprises the proceedings of the 26th international conference on hydraulics water resources and coastal engineering hydro 2021 focusing on broad spectrum of emerging opportunities and challenges in the field of flood forecasting and hydraulic structures it covers a range of topics including but not limited to early warning system urban flood modelling and management dam hazard classification river training and protection works structural and non structural measures for flood mitigation assessment and development of flood vulnerability hazard and risk maps rehabilitation of old dams streamflow turbines canal operation and related structure operation and management of dams including their instrumentation etc presenting recent advances in the form of illustrations tables and text it offers readers insights for their own research in addition the book addresses fundamental concepts and studies in the field of flood forecasting and hydraulic structures making it a valuable resource for both beginners and researchers wanting to further their understanding of hydraulics water resources and coastal engineering

Groundwater Resources Development and Planning in the Semi-Arid Region 2021-05-27

this book addresses the various challenges in achieving sustainable groundwater development management and planning in semi arid regions with a focus on india and discusses advanced remote sensing and gis techniques for the estimation and management of groundwater resources the book is timely as there is a need for a better understanding of the various tools and methods required to efficiently and sustainably meet the growing demand for clean surface and groundwater in developing countries and how these tools can be combined with other strategies in a multi disciplinary fashion to achieve this goal in water scarce regions to wit the book combines remote sensing and gis techniques runoff modeling aquifer mapping land use and land cover analyses evapotranspiration estimation crop coefficients and water policy approaches this will be of use to academics policymakers social scientists and professionals involved in the various aspects of sustainable groundwater development planning and management

Nanobiotechnology in Diagnosis, Drug Delivery and Treatment 2020-11-10

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

Innovations, Disruptions and Future Trends in the Global Construction Industry 2024-06-07

innovations disruptions and future trends in the global construction industry examines current and futuristic developments in the construction industry hinged on the construction industrial fourth and fifth revolution otherwise known as construction industry 4.0 and 5.0 this book provides a wide range of expert views and case studies on the future of the construction industry from the perspectives of researchers and practitioners in various fields of study from business management psychology sociology engineering behavioural studies and computer sciences the book provides documentary evidence of how the construction industry has changed post covid 19 pandemic in terms of design planning management construction the behaviour of construction professionals research in the built environment and new interactions of built environment practitioners with other professionals from computer science finance business management and engineering the evidence provided in this book can help decision makers in the construction sector and associated industries to understand human interaction in the construction sector and inspire new research directions furthermore the book will map potential future paradigms for the construction industry and the preparedness of construction professionals teams and organisations for coming changes this book is of interest to a wide audience of postgraduate students academics researchers and industry professionals in the built environment finance project management engineering and policy makers

Sustainability of Natural Resources 2024-06-28

agriculture is the backbone of the economy in most countries and its output can be impacted by climate change effects india as well as other countries which are predominantly agricultural are facing various challenges due to

increasing population which can be met by technological innovations for sustainable agriculture advanced and innovative technologies in agriculture will not only solve the problems of fulfilling the food requirement of the growing population but also sustain agriculture in the future sustainability of natural resources planning and management addresses the advancement of innovative techniques to address the issues of water scarcity and agricultural yield it discusses various aspects of natural resource management agriculture micro irrigation ai applications for water management and impacts of climate change on water resources this book also deals water resource exploration planning recent geographic information system based studies groundwater modelling and related applications it highlights the optimal strategies for sustainable water resource management and development it also examines precision farming using remote sensing and gis techniques

Microservices in Big Data Analytics 2019-11-26

these proceedings gather cutting edge papers exploring the principles techniques and applications of microservices in big data analytics the icetce 2019 is the latest installment in a successful series of annual conferences that began in 2011 every year since it has significantly contributed to the research community in the form of numerous high quality research papers this year the conference s focus was on the highly relevant area of microservices in big data analytics

Nanotoxicology for Agricultural and Environmental Applications 2024-03-28

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

U.G.C. Care Listed Research Article Trends Of Pure Science And Applied Disciplines In Higher Education System In India And Abroad During Covid-19 Lockdown Period 2020-08-25

completely dedicated to the biomedical applications of metal nanoparticles this book covers the different toxicity problems found in healthcare situations and also provides comprehensive info on the use of metal nanoparticles in treating various diseases metal nanoparticles in pharma is the first edited volume to set up the discussion for a clinical setting and to target a pharmaceutical audience of academic and industry based researchers

Intelligent Computing and Networking 2017-11-14

today computation is an essential component of every technology however there has not been much research on quantum computing even though it has the capability to solve complex problems in an efficient way further study is required to fully understand the uses and benefits of this technology the handbook of research on quantum computing for smart environments presents investigating physical realizations of quantum computers encoders and decoders including photonic quantum realization cavity quantum electrodynamics and many more topics on bits to qubits covering key topics such as machine learning software quantum algorithms and neural networks this major reference work is ideal for engineers computer scientists physicists mathematicians researchers academicians scholars practitioners instructors and students

Metal Nanoparticles in Pharma 2023-03-03

focusing on the application of nanotechnology in pharmaceutical technology the editors seek to integrate the two in order to obtain innovative products and solutions in pharmacology interdisciplinary in content it is of interest to those who are involved in the development of nanoproducts including nanotechnologists microbiologists biotechnologists pharmacologists and clinicians recent studies are presented that include the biosynthesis of nanoparticles focusing on antimicrobials nanomaterial based formulations that treat cancer infections skin disorders and wounds nanomaterials in eye diseases and toxicity and safety issues it demonstrates the crucial role this plays in tackling multi drug resistant threats

Handbook of Research on Quantum Computing for Smart Environments 2018

this book discusses the newest approach to online learning systems in higher education as e learning platforms change their mechanisms for data processing and storage there is a need to move these systems toward being more efficient and smarter this book covers online learning systems and their application to large scale data along with the technological aspects of these processes and problem solving methods online learning systems methods and applications with large scale data discusses the efficiency measurement and environmental impact of online education the book offers a parametric evaluation and categorization of online learning systems and provides an exploration of big data ecosystems in cloud computing descriptive analytical methods that assist in finding solutions for big data challenges are also covered within the book the book is written for academicians which includes teachers students and higher education policymakers who believe in transforming the education industry as well as research scholars and those working in education technology and artificial intelligence industry professionals involved in education management and those working in e learning companies will also find this book useful

The Republican Ethic: July 2017-July 2018 2017-11-21

this edited book provides an optimal portrayal of the principles and applications related to network security the book is thematically divided into five segments part a describes the introductory issues related to network security with some concepts of cutting edge technologies part b builds from there and exposes the readers to the digital cloud and iot forensics part c presents readers with blockchain and cryptography techniques part d deals with the role of ai and machine learning in the context of network security and lastly part e is written on different security networking methodologies this is a great book on network security which has lucid and well planned chapters all the latest security technologies are thoroughly explained with upcoming research issues details on internet architecture security needs encryption cryptography along with the usages of machine learning and artificial intelligence for network security are presented in a single cover the broad ranging text reference comprehensively surveys network security concepts methods and practices and covers network security policies and goals in an integrated manner it is an essential security resource for practitioners in networks and professionals who develop and maintain secure computer networks

Nanotechnology Applied To Pharmaceutical Technology 2023-02-10

the book is compilation of technical papers presented at international research symposium on computing and network sustainability ircns 2016 held in goa india on 1st and 2nd july 2016 the areas covered in the book are sustainable computing and security sustainable systems and technologies sustainable methodologies and applications sustainable networks applications and solutions user centered services and systems and mobile data management the novel and recent technologies presented in the book are going to be helpful for researchers and industries in their advanced works

Online Learning Systems 2020-11-24

waste management professionals now face a more complex challenge than ever before in collecting transporting treating and disposing of solid waste especially that which is produced in large and medium sized metropolitan centers in economically developing nations where money people and other vital resources are already limited the issue is magnified by providing professionals in developing countries and those from industrialized countries that may be identified as upon to provide assistance with waste management objective reliable and helpful information can be provided to help alleviate some of the challenges that exist in this area rapid growth in production and consumption means that civilizations routinely produce and discard solid items from all walks of life including agriculture commerce household industry and government the massive amount of trash created and thrown away in this way is known as solid wastes to rephrase solid wastes refer to the worthless or undesired materials that are often solid in nature and result from human and animal activity natural resources will be strained to the breaking point severely impeding effective and sustainable growth this book focuses on one strategy for salvaging the situation effective management of solid wastes

The "Essence" of Network Security: An End-to-End Panorama 2017-07-05

Computing and Network Sustainability 2023-09-18

Solid And Liquid Waste Management

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