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Emerging Contaminants Nanomedicine and Tissue Engineering Big Data in the Arts and Humanities Proceedings of International Conference on Deep Learning, Computing and Intelligence Green Banking and Environment Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies Nanomedicine and Cancer Therapies Cognitive Computing Using Green Technologies Climate Justice and Geoengineering Strategies and Tools for Pollutant Mitigation Caspases—Advances in Research and Application: 2013 Edition Advances in Communication, Devices and Networking Advances in Bioremediation and Phytoremediation for Sustainable Soil Management Recent Trends in Blockchain for Information Systems Security and Privacy Toxicology and Epigenetics Outlook Contemporary Italian Diversity in Critical and Fictional Narratives Relationship Between Microbes and the Environment for Sustainable Ecosystem Services, Volume 3 Essays in Ecocriticism The Caravan India Today Proceedings of International Conference on Recent Trends in Computing Anthropocene Antarctica Embattled Media Bioinformatics Omics Science for Rhizosphere Biology Arts & Humanities Citation Index Monthly Catalog of United States Government Publications Directory of U.S. Institutions of Higher Education Outlook Education Directory Information Sources in the Social Sciences Xenobiotics in the Soil Environment Acronyms, Initialisms & Abbreviations Dictionary Monthly Catalogue, United States Public Documents Poznan Studies in the Philosophy of the Sciences and Humanities Exercise Physiology and its Role in Chronic Disease Prevention and Treatment - Mechanisms and Insights The Indian Yearbook of Law and Interdisciplinary Studies Internet of Things and Machine Learning in Agriculture Education Directory

Advances in Bioremediation and Phytoremediation for Sustainable Soil Management Oct 22 2021 This edited volume deals with the understanding of the issues concerned with the pollution caused by toxic elements and heavy metals and their impacts on the different agro-ecosystems as well as the techniques involved in sustainable remediation and amelioration of polluted soils. Furthermore, the book is a detailed comprehensive account for the treatment technologies from unsustainable to sustainable which includes chapters prepared by professionals with expertise in environmental microbiology, biotechnology, bioremediation, and environmental engineering. It focuses on the characterization, reclamation, bioremediation, and phytoremediation of polluted soils. The research presented also highlights some of the significantly important plant and microbial species involved in remediation, the physiology, biochemistry, and the mechanisms of remediation by various plants and microbes, and suggestions for future improvement of bioremediation technology. It offers insights into the current focus and recent advances in bioremediation and green technology applications for sustainable soil management.

Green Banking and Environment Jun 29 2022

Strategies and Tools for Pollutant Mitigation Jan 25 2022 This book offers an overview of the latest work in environmental remediation and waste management coming out of developing nations. It is split into two sections: one on state-of-the-art sustainable remediation approaches, and the other covering waste management for a cleaner environment The ten chapters in this book are structured as reviews that assimilate recent works in these areas; they provide a centralized resource for scholars in developing nations who are working in environmental remediation and waste management. The volume will be of interest to sustainability researchers, environmental engineers, industry managers and agricultural scientists.

Caspases—Advances in Research and Application: 2013 Edition Dec 24 2021 Caspases—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Effector Caspases in a concise format. The editors have built Caspases—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Effector Caspases in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Caspases—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Big Data in the Arts and Humanities Sep 01 2022 As digital technologies occupy a more central role in working and everyday human life, individual and social realities are increasingly constructed and communicated through digital objects, which are progressively replacing and representing physical objects. They are even shaping new forms of virtual reality. This growing digital transformation coupled with technological evolution and the development of computer computation is shaping a cyber society whose working mechanisms are grounded upon the production, deployment, and exploitation of big data. In the arts and humanities, however, the notion of big data is still in its embryonic stage, and only in the last few years, have arts and cultural organizations and institutions, artists, and humanists started to investigate, explore, and experiment with the deployment and exploitation of big data as well as understand the possible forms of collaborations based on it. Big Data in the Arts and Humanities: Theory and Practice explores the meaning, properties, and applications of big data. This book examines therelevance of big data to the arts and humanities, digital humanities, and management of big data with and for the arts and humanities. It explores the reasons and opportunities for the arts and humanities to embrace the big data revolution. The book also delineates managerial implications to successfully shape a mutually beneficial partnership between the arts and humanities and the big data- and computational digital-based sciences. Big data and arts and humanities can be likened to the rational and emotional aspects of the human mind. This book attempts to integrate these two aspects of human thought to advance decision-making and to enhance the expression of the best of human life.

Outlook Jul 19 2021

Recent Trends in Blockchain for Information Systems Security and Privacy Sep 20 2021 Blockchain technology is an emerging distributed, decentralized architecture and computing paradigm, which has accelerated the development and application of cloud, fog and edge computing; artificial intelligence; cyber physical systems; social networking; crowdsourcing and crowdsensing; 5g; trust management and finance; and other many useful sectors. Nowadays, the primary blockchain technology uses are in information systems to keep information secure and private. However, many threats and vulnerabilities are facing blockchain in the past decade such 51% attacks, double spending attacks, etc. The popularity and rapid development of blockchain brings many technical and regulatory challenges for research and academic communities. The main goal of this book is to encourage both researchers and practitioners of Blockchain technology to share and exchange their experiences and recent studies between academia and industry. The reader will be provided with the most up-to-date knowledge of blockchain in mainstream areas of security and privacy in the decentralized domain, which is timely and essential (this is due to the fact that the distributed and p2p applications are increasing day-by-day, and the attackers adopt new mechanisms to threaten the security and privacy of the users in those environments). This book provides a detailed explanation of security and privacy with respect to blockchain for information systems, and will be an essential resource for students, researchers and scientists studying blockchain uses in information systems and those wanting to explore the current state of play.

Xenobiotics in the Soil Environment Jan 31 2020 This book describes the vast variety of xenobiotics, such as pesticides, antibiotics, antibiotic resistance genes, agrochemicals and other pollutants, their interactions with the soil environment, and the currently available strategies and techniques for soil decontamination and bioremediation. Topics covered include: transport mechanisms of pollutants along the Himalayas; use of earthworms in biomonitoring; metagenomic strategies for assessing contaminated sites; xenobiotics in the food chain; phyto-chemical remediation; biodegradation by fungi; and the use of enzymes and potential microbes in biotransformation. Accordingly, the book offers a valuable guide for scientists in the fields of environmental ecology, soil and food sciences, agriculture, and applied microbiology.

Monthly Catalog of United States Government Publications Jul 07 2020

Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies May 29 2022 Recently, artificial intelligence (AI), the internet of things (IoT), and cognitive technologies have successfully been applied to various research domains, including computer vision, natural language processing, voice recognition, and more. In addition, AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications. On the other hand, network design and optimization for AI applications addresses a complementary topic, namely the support of AI-based systems through novel networking techniques, including new architectures, as well as performance models for IoT systems. IoT has paved the way to a plethora of new application domains, at the same time posing several challenges as a multitude of devices, protocols, communication channels, architectures, and middleware exist. Big data generated by these devices calls for advanced learning and data mining techniques to effectively understand, learn, and reason with this volume of information, such as cognitive technologies. Cognitive technologies play a major role in developing successful cognitive systems which mimic "cognitive" functions associated with human intelligence, such as "learning" and "problem solving." Thus, there is a continuing demand for recent research in these two linked fields. The Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies discusses the latest innovations and applications of AI, IoT, and cognitive-based smart systems. The chapters cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation, public policies, technologies and intellectual capital, innovation systems, competition and strategies, marketing and growth capability, and governance and relegation models. These applications span areas such as healthcare, security and privacy, industrial systems, multidisciplinary sciences, and more. This book is ideal for technologists, IT specialists, policymakers, government officials, academics, students, and practitioners interested in the experiences of innovations and applications of AI, IoT, and cognitive technologies.

Toxicology and Epigenetics Aug 20 2021 Epigenetics is the study of both heritable and non-heritablechanges in the regulation of gene activity and expression thatoccur without an alteration in the DNA sequence. Thisdynamic and rapidly developing discipline is making its impactacross the biomedical sciences, in particular in toxicology whereepigenetic differences

can mean that different individuals responddifferently to the same drug or chemical. Toxicology and Epigenetics reflects the multidimensionalcharacter of this emerging area of toxicology, describingcutting-edge molecular technologies to unravel epigenetic changes,the use of in vivo and in vitro models, as well asthe potential use of toxicological epigenetics in regulatoryenvironments. An international team of experts consider theinterplay between epigenetics and toxicology in a number of areas,including environmental, nutritional, pharmacological, andcomputational toxicology, nanomaterials, proteomics andmetabolomics, and cancer research. Topics covered include: environment, epigenetics and diseases DNA methylation and toxicogenomics chromatin at the intersection of disease and therapy epigenomic actions of environmental arsenicals environment, epigenetics and cardiovascular health toxicology, epigenetics and autoimmunity ocular epigenomics: potential sites of environmental impact indevelopment and disease nuclear RNA silencing and related phenomena in animals epigenomics – impact for drug safety sciences methods of global epigenomic profiling transcriptomics: applications in epigenetic toxicology Toxicology and Epigenetics is an essential insight intothe current trends and future directions of research in thisrapidly expanding field for investigators, toxicologists, riskassessors and regulators in academia, industry and government.

Bioinformatics Oct 10 2020 Bioinformatics: Methods and Applications provides a thorough and detailed description of principles, methods, and applications of bioinformatics in different areas of life sciences. It presents a compendium of many important topics of current advanced research and basic principles/approaches easily applicable to diverse research settings. The content encompasses topics such as biological databases, sequence analysis, genome assembly, RNA sequence data analysis, drug design, and structural and functional analysis of proteins. In addition, it discusses computational approaches for vaccine design, systems biology and big data analysis, and machine learning in bioinformatics. It is a valuable source for bioinformaticians, computer biologists, and members of biomedical field who needs to learn bioinformatics approaches to apply to their research and lab activities. Covers basic and more advanced developments of bioinformatics with a diverse and interdisciplinary approach to fulfill the needs of readers from different backgrounds Explains in a practical way how to decode complex biological problems using computational approaches and resources Brings case studies, real-world examples and several protocols to guide the readers with a problem-solving approach

Arts & Humanities Citation Index Aug 08 2020

Cognitive Computing Using Green Technologies Mar 27 2022 Cognitive Computing is a new topic which aims to simulate human thought processes using computers that self-learn through data mining, pattern recognition, and natural language processing. This book focuses on the applications of Cognitive Computing in areas like Robotics, Blockchain, Deep Learning, and Wireless Technologies. This book covers the basics of Green Computing, discusses Cognitive Science methodologies in Robotics, Computer Science, Wireless Networks, and Deep Learning. It goes on to present empirical data and research techniques, modelling techniques and offers a data-driven approach to decision making and problem solving. This book is written for researchers, academicians, undergraduate and graduate students, and industry persons who are working on current applications of Cognitive Computing.

Information Sources in the Social Sciences Mar 03 2020 The aim of each volume of this series Guides to Information Sources is to reduce the time which needs to be spent on patient searching and to recommend the best starting point and sources most likely to yield the desired information. The criteria for selection provide a way into a subject to those new to the field and assists in identifying major new or possibly unexplored sources to those who already have some acquaintance with it. The series attempts to achieve evaluation through a careful selection of sources and through the comments provided on those sources.

Proceedings of International Conference on Deep Learning, Computing and Intelligence Jul 31 2022 This book gathers selected papers presented at the International Conference on Deep Learning, Computing and Intelligence (ICDCI 2021), organized by Department of Information Technology, SRM Institute of Science and Technology, Chennai, India, during January 7-8, 2021. The conference is sponsored by Scheme for Promotion of Academic and Research Collaboration (SPARC) in association with University of California, UC Davis and SRM Institute of Science and Technology. The book presents original research in the field of deep learning algorithms and medical imaging systems, focusing to address issues and developments in recent approaches, algorithms, mechanisms, and developments in medical imaging.

Internet of Things and Machine Learning in Agriculture Jul 27 2019 Agriculture is one of the most fundamental human activities. As the farming capacity has expanded, the usage of resources such as land, fertilizer, and water has grown exponentially, and environmental pressures from modern farming techniques have stressed natural landscapes. Still, by some estimates, worldwide food production needs to increase to keep up with global food demand. Machine Learning and the Internet of Things can play a promising role in the Agricultural industry, and help to increase food production while respecting the environment. This book explains how these technologies can be applied, offering many case studies developed in the research world.

Nanomedicine and Cancer Therapies Apr 27 2022 Nanotechnology has the power to radically change the way cancer is diagnosed, imaged, and treated. The holistic approach to cancer involves noninvasive procedures that emphasize restoring the health of human energy fields. Presenting a wealth of information and research about the most potent cancer healing therapies, this forward-thinking book explores how nanomedicine, holistic medicine, and other cancer therapies play important roles in treatment of this disease. Topics include nanobiotechnology for antibacterial therapy and diagnosis, mitochondrial dysfunction and cancer, antioxidants and combinatorial therapies, and optical and mechanical investigations of nanostructures for biomolecular detection.

The Indian Yearbook of Law and Interdisciplinary Studies Aug 27 2019 This yearbook focuses on law and its interdisciplinarity in India. It brings together scholars of law, economics, and policy to foster multidisciplinary thinking and analysis across subject areas. The contributors to this volume embody an interdisciplinary spirit through their academic experience and aim to bring to the fore unique suggestions for a better understanding of the law. The volume explores various key issues that are central to state policy demanded by a functioning democracy, in terms of democratic quality, aspirations and sustainability. It discusses global and social issues, such as foreign interference in domestic elections, feminism, and climate change and looks at other subjects such as economics, religion, history, literature from the perspective of law. A unique contribution to the study of law in India, this book will be an essential read for scholars and researchers of law, jurisprudence, political science, economics, public policy, sociology, social anthropology, the Indian Constitution, and South Asia studies.

The Caravan Mar 15 2021 Aadhaar was originally pitched as a way to eliminate identity fraud in the delivery of public benefits. Today, its application far exceeds that purpose. Nandan Nilekani, the technology billionaire who was the prime mover behind Aadhaar, has said that "data has become the new oil," and that "if we canrestructure data to benefit every individual and every business, then we can lead to enormous amount of activity and economic growth." He has also said, "In the West, the identity business was privatised. That's a much more unsafe model than when a government issues an ID." But while Aadhaar is presented as a way to mobilise Indians' data for the public good, the lines between those who run Aadhaar and those who profit from it are blurry. Also in this issue: Praveen Donthi on how the dilution of the SC/ST Act is reigniting Dalit anger against the BJP and RSS; Nilakantan RS on the deepening fault lines between southern states and the Indian union; Kamayani Sharma on October's experiments with the Bollywood romance genre; Sanam Meher on what Qandeel Baloch left behind; Ross Adkin on how Brexit negotiations are raising uncomfortable questions in Northern Ireland; Senthil Kumaran on the conflict between humans and tigers in India.

India Today Feb 11 2021

Advances in Communication, Devices and Networking Nov 22 2021 This book covers recent trends in the field of devices, wireless communication and networking. It gathers selected papers presented at the 5th International Conference on Communication, Devices and Networking (ICCDN 2021), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India, on 1516 December 2021. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives and offer them inspirations on how to address real-world problems in the areas of electronics, communication, devices and networking.

Contemporary Italian Diversity in Critical and Fictional Narratives Jun 17 2021 Contemporary Italian Diversity in Critical and Fictional Narratives brings together creative literary works and scholarly articles. Both address the changes and challenges to identity formation in an Italy marked by the migrations, populism, nationalism, and xenophobia, and analyze diversity and the affirmation of belonging.

Proceedings of International Conference on Recent Trends in Computing Jan 13 2021 This book is a collection of high-quality peer-reviewed research papers presented at International Conference on Recent Trends in Computing (ICRTC 2021) held at SRM Institute of Science and Technology, Ghaziabad, Delhi, India, during 4 – 5 June 2021. The book discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. The book presents original works from researchers from academic and industry in the field of networking, security, big data and the Internet of things.

Education Directory Jun 25 2019

Omics Science for Rhizosphere Biology Sep 08 2020 This book presents a timely review of the latest advances in rhizosphere biology, which have been facilitated by the application of omics tools. It includes chapters on the use of various omics tools in rhizosphere biology, focusing on understanding plant and soil microbe interactions. The role of proteomics and metagenomics in research on symbiotic association is also discussed in detail. The book also includes chapters on the use of omics tools for the isolation of functional biomolecules from rhizospheric microorganisms. The book's respective sections describe and provide detailed information on important omics tools, such as genomics, transcriptomics, proteomics, metabolomics and meta-epigenomics. In turn, the book promotes and describes the combined use of plant biology, microbial ecology, and soil sciences to design new research strategies and innovative methods in soil biology. Lastly, it highlights the considerable potential of the rhizosphere in terms of crop productivity, bioremediation, ecological engineering, plant nutrition and health, as well as plant adaptation to stress conditions. This book offers both a practical guide and reference source for all scientists working in soil biology, plant pathology, etc. It will also benefit students studying soil microbiology, and researchers studying rhizosphere structure.

Exercise Physiology and its Role in Chronic Disease Prevention and Treatment - Mechanisms and Insights Sep 28 2019
Directory of U.S. Institutions of Higher Education Jun 05 2020
Poznan Studies in the Philosophy of the Sciences and Humanities Oct 29 2019
Relationship Between Microbes and the Environment for Sustainable Ecosystem Services, Volume 3 May 17 2021 Relationship Between Microbes and Environment for Sustainable Ecosystem Services, Volume Three: Microbial Tools for Sustainable Ecosystem Services promotes advances in sustainable solutions, value-added products, and fundamental research in microbes and the environment. Topics include advanced and recent developments in the use of microbes for sustainable development. Volume Three includes concepts and applications of microbes in ecosystem services, with a focus on sustainable practices. The book will include case studies and utility of microbes on both geographical and production system-wide considerations. This book provides reference information ranging from the description of various microbial applications for the sustainability in different aspects of food, energy, environment industry and social development. This book will be helpful to environmental biotechnology scientists, industrial professionals and experts working in the field of microbiology. Covers the latest developments, recent applications and future research avenues in microbial biotechnology for sustainable development Includes expressive tables and figures with concise information about sustainable ecosystem services Provides a wide variety of applications and modern practices of harnessing the potential of microbes in the environment
Emerging Contaminants Nov 03 2022 The increased demand due to anthropogenic activity leads to emerging contaminants, resulting in a substantial environmental hazard. The long-term presence and exposure of contaminants lead to severe negative impacts on the environment, humans, and other life forms. Hence, emerging contaminants in the environment is a worldwide concern, and new technologies to mitigate these contaminants are being developed. This book covers the source, occurrence, toxicity, and detection techniques of a wide range of emerging contaminants. This collection also discusses the scope and applications of diverse techniques, including Bio/Phyto and Nano-remediation technologies, to mitigate the emerging contaminants; along with their sustainability issue and prospects. As a result, this book appears to provide insight into several modern and environmentally friendly waste management options, the possibility to minimize and lessen the effects of contaminants, and striving to lower toxicological endpoints to assure environmental safety. This book delivers the most recent advancements by prominent specialists in environmental sciences to academics, researchers, students, and practitioners interested in the identification and eradication of emerging pollutants from the environment.
Embattled Media Nov 10 2020 Embattled Media is the first book to look comprehensively at the evolution of news media in post-colonial Sri Lanka, with a focus on media policy, law and education. It offers valuable insights into the importance of independent media for democratic governance in the wider South Asian region. The book reviews the role of new media platforms in widening the scope for public debate. Further, it provides a detailed analysis of the existing media laws and policies and of campaigns to reform them. It also focuses on the role of institutions in media education by providing a comprehensive analysis of existing media curricula and underlining the importance of improved media literacy and introduction of Right to Information Act for a healthy democracy. The contributors to this volume, including leading journalists, broadcasters, practitioners in public law, media academics and analysts, write from extensive experience.
Anthropocene Antarctica Dec 12 2020 Anthropocene Antarctica offers new ways of thinking about the 'Continent for Science and Peace' in a time of planetary environmental change. In the Anthropocene, Antarctica has become central to the Earth's future. Ice cores taken from its interior reveal the deep environmental history of the planet and warming ocean currents are ominously destabilising the glaciers around its edges, presaging sea-level rise in decades and centuries to come. At the same time, proliferating research stations and tourist numbers challenge stereotypes of the continent as the 'last wilderness.' The Anthropocene brings Antarctica nearer in thought, entangled with our everyday actions. If the Anthropocene signals the end of the idea of Nature as separate from humans, then the Antarctic, long considered the material embodiment of this idea, faces a radical reframing. Understanding the southern polar region in the twenty-first century requires contributions across the disciplinary spectrum. This collection paves the way for researchers in the Environmental Humanities, Law and Social Sciences to engage critically with the Antarctic, fostering a community of scholars who can act with natural scientists to address the globally significant environmental issues that face this vitally important part of the planet.
Essays in Ecocriticism Apr 15 2021 Contributed papers presented at two ecocriticism conferences organized by Indian Association for Studies in Contemporary Literature in English ... [et al.].
Nanomedicine and Tissue Engineering Oct 02 2022 This book focuses on the recent advances in nanomedicine and tissue engineering. It outlines the basic tools and novel approaches that are becoming available in nanomedicine and tissue engineering and considers the full range of nanomedical applications which employ molecular nanotechnology inside the human body, from the perspective of a future practitioner in an era of widely available nanomedicine. Topics include: Health benefits of phytochemicals and application of superparamagnetic nanoparticles for hyperthermia Silver nanoparticles in nanomedicine Optical diagnostic of molecules and cells using nanotechnology Nanoparticulate drug delivery system for antiviral drugs Liposomal drug delivery systems, nanoemulsifying drug delivery system (SNEDS) Functionalization of tissue engineering scaffolds Induction of angiogenesis in scaffolds Many other recent achievements Written by some of the most innovative minds in medicine and tissue engineering, this book considers the full range of nanomedical applications which employ molecular nanotechnology inside the human body and will help professionals understand cutting-edge and futuristic areas of nanomedicine and tissue engineering research. Readers will find insightful discussions on nanostructured intelligent materials and devices that are considered technically feasible and that have a high potential to produce advances in medicine in the near future.
Climate Justice and Geoengineering Feb 23 2022 A collection of original and innovative essays that compare the justice issues raised by climate engineering to the justice issues raised by competing approaches to solving the climate problem.
Acronyms, Initialisms & Abbreviations Dictionary Jan 01 2020
Education Directory Apr 03 2020
Monthly Catalogue, United States Public Documents Nov 30 2019
Outlook May 05 2020

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