

The Expert Library Staffing Sustaining And Advancing The Academic Library In The 21st Century

Advancing Innovation and Sustainable Outcomes in International Graduate Education Advancing Sustainable Development The Expert Library Advanced Computational Techniques for Sustainable Computing Towards a Sustainable America Advanced Membrane Science and Technology for Sustainable Energy and Environmental Applications The Expert Library Advanced Oxidation Technologies Political Agroecology Green and Sustainable Manufacturing of Advanced Material Reclaiming Our Future Advancing Sustainable Development in the Americas Talk the Walk Advanced Introduction to Sustainable Careers Advanced Technologies for Sustainable Development of Urban Green Infrastructure Towards a Sustainable America Advanced Intelligent Systems for Sustainable Development (AI2SD 2018) Advancing the Regional Commons in the New East Asia Sustainable Hospitality Management Issues and trends in education for sustainable development Moving Ahead with ISO 14000 Advancing Sustainable Development Goal 14 Reclaiming Our Future FAO-CIHEAM Partnership – Advancing sustainable rural development in the Mediterranean Intergenerational Justice in Sustainable Development Treaty Implementation Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods Sustainable Consumption, Production and Supply Chain Management Advancement in the Design and Performance of Sustainable Asphalt Pavements Advanced Technologies for Sustainable Systems Advancing the Decade of Action for Sustainable Development in the Caribbean Advancing a Circular Economy Advanced Intelligent Systems for Sustainable Development (AI2SD 2018) Education for Sustainable Development Activating Critical Thinking to Advance the Sustainable Development Goals in Tourism Systems Transgovernance Big Data Science and Analytics for Smart Sustainable Urbanism Business With Purpose: Advancing Social Enterprise Advanced Computational Techniques for Sustainable Computing Advanced Intelligent Systems for Sustainable Development (AI2SD 2019) Advanced Analytics for Green and Sustainable Economic Development

Eventually, you will unconditionally discover an additional experience and completion by spending more cash, yet when? do you allow that you require to acquire those all needs afterward having significantly cash? Why dont you attempt to get something basic in the beginning? Thats something that will lead you to understand even more something like the globe, experience, some places, bearing in mind history, amusement, and a lot more?

It is your certainly own times to play in reviewing habit. among guides you could enjoy now is *The Expert Library Staffing Sustaining And Advancing The Academic Library In The 21st Century* below.

Advancing Sustainable Development in the Americas Jan 15 2022

Advancing the Decade of Action for Sustainable Development in the Caribbean Jun 27 2020 Director's Desk: Time to Act: Advancing the Decade of Action for Sustainable Development in the Caribbean. -- Financing for Caribbean sustainable development in the context of the COVID-19 pandemic. -- Inclusive and equitable education in the Caribbean and the path towards ensuring quality education for all in a post-pandemic era. -- COVID-19 and the pledge to leave no one behind. -- Civil society engagement in support of SDG implementation. -- Recent and upcoming meetings. -- List of recent ECLAC documents and publications.

Reclaiming Our Future Feb 16 2022 The publication describes pathways to achieve more inclusive and sustainable post-pandemic recovery in Asia and the Pacific. It identifies elements for a common agenda for present and future generations centered on protecting people and planet, leveraging on digital opportunities, trading and investing more together, raising financial resources and managing debt. It underlines the need to listen and work with the youth, placing women at the center for crisis-prepared policy action and new people-centric partnerships, with a readiness of the Economic and Social Commission for Asia and the Pacific (ESCAP) to serve.

Business With Purpose: Advancing Social Enterprise Nov 20 2019 A Social Enterprise Venture (SEV) is defined as an organization, initiative or startup that has a strong social innovation characteristic focusing on a scalable and sustainable social wealth creation or sustainable living at the individual or community level. Most books that deal with SEVs, unfortunately still focus on non-profits. Current market trends indicate non-profits need more sustainable funding mechanisms for survival. This book focuses on the growing need to build a business with purpose. With the growing role of the private sector in the development arena, as highlighted by the UN Sustainable Development Goals, all firms need to relook entrepreneurship from a 'business-with-purpose' lens. The fact that venture capitalists/private equity firms are acquiring social ventures (like Bain Capital and TOMS), or that SEVs are being divested (L'Oréal and Body Shop), reinforces the need to understand which business models work. One of the biggest barriers for growth of SEVs is scalability and internationalization. This book fills the present gap between research and practice; and the non-profits and for-profit worlds.

Sustainable Consumption, Production and Supply Chain Management Sep 30 2020 This incisive book integrates the academic fields of sustainable consumption and production (SCP) and sustainable supply chain management (SSCM) as a framework for challenging the current economic paradigm and addressing the significant ecological and environmental problems faced by the contemporary business world. Outlining the growth and progress of consumption in the developed world, initial chapters explore the numerous problems that have emerged from the current mode of consuming resources, and how we might engage in more sustainable consumption practices. The book goes on to address the historical development of mass production and the ecological damage caused by an unsustainable linkage between mass consumption and mass production. Considering the future of the supply web, it illustrates how SSCM can play a leading role in the transition towards a more sustainable economic system if it is able to address contemporary ecological concerns more effectively. This insightful and optimistic platform for ecological supply chain management is a rousing call to arms for business and management scholars hoping to propose innovative methods of improving the sustainability of consumption, production and supply webs. It will also benefit the work of business practitioners and entrepreneurs looking to engage in more sustainable business operations.

Towards a Sustainable America Sep 11 2021

Sustainable Hospitality Management Jun 08 2021 The hospitality industry is major industry. Due a steady growth, by 2030 the hospitality and tourism industry is expected to provide 380 million jobs. This title explores the challenges presented including labor shortages, containing and reducing the ecological footprint, Over tourism, and a poor industry image.

Intergenerational Justice in Sustainable Development Treaty Implementation Dec 02 2020 Economic, technological, social and environmental transformations are affecting all humanity, and decisions taken today will impact the quality of life for all future generations. This volume surveys current commitments to sustainable development, analysing innovative policies, practices and procedures to promote respect for intergenerational justice. Expert contributors provide serious scholarly and practical discussions of the theoretical, institutional, and legal considerations inherent in intergenerational justice at local, national, regional and global scales. They investigate treaty commitments related to intergenerational equity, explore linkages between regimes, and offer insights from diverse experiences of national future generations' institutions. This volume should be read by lawyers, academics, policy-makers, business and civil society leaders interested in the economy, society, the environment, sustainable development, climate change, and other law, policy and practices impacting all generations.

Advancement in the Design and Performance of Sustainable Asphalt Pavements Aug 30 2020 This volume on "Advancement in the Design and Performance of Sustainable Asphalt Pavements" includes a collection of research and practical papers from an international research and technology activities on Mixture Design Innovation, Structural Pavement Design, Advancement in Production and Construction, Climate Changes and Effects on Infrastructure, Green Energy, Technology and Integration. The volume constitutes an important contribution in view of the urgent need to develop materials, designs, and practices to ensure the sustainability of transportation infrastructure. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.

Advanced Introduction to Sustainable Careers Nov 13 2021 This insightful Advanced Introduction provides a road map for building and maintaining a sustainable career. Delving into the meaning of a 'sustainable career', the book examines the factors that threaten a career's sustainability, such as economic turbulence, changes in organizational practices, and advances in technology, offering actions that can be taken to overcome these threats and strengthen the sustainability of careers.

Advancing the Regional Commons in the New East Asia Jul 09 2021 Advancing the Regional Commons in the New East Asia highlights a number of interests which members of ASEAN and Plus Three countries collectively recognize. This set of common interests includes not only economic development but also social development. Written by nationals in their respective countries, the different chapters in this volume highlights the different foundations for such common interests and these reflect the different constructive ways in which ASEAN and Plus Three countries come to see a multi-strand cooperative partnership. The task of advancing the regional commons will involve efforts to recognise and nurture ASEAN's and Plus Three's common interests in terms of broad social development, managing regional security issues, the development of a regional infrastructure, and ensuring collective progress for all member countries. ASEAN becomes a community in 2015 and the idea of embracing, protecting, sustaining and advancing the regional commons become a vital process. Concurrently, APT has also realized that its contribution to the achieving goal of community and promoting regional commons is absolutely critical for both ASEAN and the Plus Three countries. Academics will find in this volume a clear analytical treatment of issues which regional groupings are currently facing and this can provide the basis for a comparative analysis. This volume will also be of interest to students and the general public looking for a systematic introduction to the successful implementation of cooperative ventures and also an assessment of the new collaborative energies which shape this dynamic region.

Advancing Sustainable Development Nov 25 2022 This book is the first systematic analysis of Russia's poverty and living standards since the country's independence. Its primary goal is to quantify the nature and extent of changes in the welfare of Russians during the course of transition and beyond. Part 1 establishes the economic and methodological framework within which poverty in the Russian Federation is studied. Part 2 comprises a series of chapters that analyze poverty profiles and trends, ranging across monetary and non-monetary indicators. Part 3 addresses selected critical aspects of the system of social support in the impact of public transfers, the extent of private interhousehold transfers, and public opinion about social problems.

Activating Critical Thinking to Advance the Sustainable Development Goals in Tourism Systems Feb 22 2020 Activating Critical Thinking to Advance the Sustainable Development Goals in Tourism Systems focuses on the role of critical thinking and inquiry in the implementation of the 2030 Sustainable Development Goals (SDGs) in tourism systems. The impetus for the development of this book emerged from the declaration by the United Nations (UN) General Assembly of 2017 as the International Year of Sustainable Tourism for Development. This declaration purposely positions tourism as a tool to advance the universal 2030 Agenda for Sustainable Development and the 17 SDGs, thus mutually serving as an opportunity and responsibility to appraise from a critical lens what the SDGs signify and how they can be understood from multiple perspectives. The chapters in the book foster the next phase of sustainable tourism scholarship that actively considers the interconnections of the UN's SDGs to tourism theory and praxis, and activates critical thinking to analyze and advance sustainability in tourism systems. It articulates the need for the academy to be more intrinsically involved in ongoing iterations of multilateral accords and decrees, to ensure they embody more critical and inclusive transitions toward sustainability, as opposed to market-driven, neoliberal directives. The contributions in this book encourage various worldviews challenging, shaping, and more critically reflecting the realities of global communities as related to, and impacted by, sustainable tourism development. The chapters in this book were originally published as a special issue of the Journal of Sustainable Tourism.

Advancing a Circular Economy May 27 2020 This book explores an escalating modern-day crisis: managing waste in a sustainable way. The central question posed is whether advancing a circular economy provides a way to shift waste management practices towards more sustainable approaches. It begins with an in-depth analysis of the nature of waste management and the prevailing crisis, followed by a discussion about the circular economy in terms of its requirements and the challenges of implementation. The book then moves on to propose a framework that sets out how to establish the policy changes needed to advance a circular approach to waste management. Next, the book outlines complex issues in multilevel systems for advancing a circular economy through examining the contemporary situation in Belgium and Norway. It ends by bringing together the issues revealed in these case studies and draws insights for governments advocating circular approaches. The book will be a valuable resource to scholars, students, practitioners and policy makers interested in developing more sustainable methods of waste management.

Advanced Technologies for Sustainable Development of Urban Green Infrastructure Oct 12 2021 This proceedings book focuses on advanced technologies to monitor and model urban soils, vegetation and climate, including internet of things, remote sensing, express and non-destructive techniques. The Smart and Sustainable Cities (SSC) conference is a regular event, organized each second year in RUDN University (Russia) and providing a multidisciplinary platform for scientists and practitioners in urban environmental monitoring, modeling, planning and management.

The Expert Library Jun 20 2022 Collects essays by academic librarians exploring such ways to advance academic libraries in the twenty-first century as identifying core competencies, promoting participatory librarianship, and supporting new roles and responsibilities.

Advanced Technologies for Sustainable Systems Jul 29 2020 This book reports on cutting-edge technologies that have been fostering sustainable development in a variety of fields, including built and natural environments, structures, energy, advanced mechanical technologies as well as electronics and communication technologies. It reports on the applications of Geographic Information Systems (GIS), Internet-of-Things, predictive maintenance, as well as modeling and control techniques to reduce the environmental impacts of buildings, enhance their environmental contribution and positively impact the social equity. The different chapters, selected on the basis of their timeliness and relevance for an audience of engineers and professionals, describe the major trends in the field of sustainable engineering research, providing them with a snapshot of current issues together with important technical information for their daily work, as well as an interesting source of new ideas for their future research. The works included in this book were selected among the contributions to the BUE ACE1, the first event, held in Cairo, Egypt, on 8-9 November 2016, of a series of Annual Conferences & Exhibitions (ACE) organized by the British University in Egypt (BUE).

Advanced Intelligent Systems for Sustainable Development (AI2SD'2018) Aug 10 2021 This book gathers papers presented at the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2018), which was held in Tangiers, Morocco on 12–14 July 2018. In addition to the latest research in the field of energy, it offers new solutions, tools and effective techniques, and provides essential information on smart grids, renewable and economical energy. Further, it addresses modeling, storage management and decision support in the field of energy, offering a valuable guide for researchers, professionals and all those who are interested in the development of advanced intelligent systems in the energy sector.

Education for Sustainable Development Mar 25 2020

The Expert Library Oct 24 2022 The Expert Library provides an overview of the changing dynamics entailed in recruiting and retaining academic library professionals for the 21st century and contains fresh thinking and insights into what will be required to ensure continued library relevance and success through its people.

Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) Sep 18 2019 This book contains the latest researches on advanced intelligent systems applied in the field of education presented during the second edition of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) held on July 08–11, 2019, in Marrakech, Morocco. The book proposes new approaches and innovative strategies for the manipulation of data and big data collected from the educational environment, exploiting the analysis tools, algorithms of artificial intelligence, and machine learning techniques, in order to extract results, which allow improving the performance and effectiveness of the education field, which is a strategic lever for sustainable development. The book deals with concepts, strategies, and approaches developed on various current axes of scientific research in the field of education, such as smart e-learning, smart education (smart classroom, smart assessment and smart teaching and learning technologies), massive open online courses (MOOC), courseware design, and development for smart learning, cloud learning, and mobile learning. The book is intended for all actors in the educational sector, namely students, professors, academic researchers, and stakeholders. It constitutes a large-scale forum for the exchange of ideas, approaches, and innovative techniques between these actors on the development and innovation of the field of education with the revolution 4.0. The authors of each chapter report the state of the art of the various topics addressed and present results of their own research, laboratory experiments, and successful applications. The purpose of this session is to share the idea of advanced intelligent systems with appropriate tools and techniques for modeling, management, and decision support in the field of education.

FAO-CIHEAM Partnership – Advancing sustainable rural development in the Mediterranean Jan 03 2021 For almost four decades, the partnership between the Food and Agriculture Organization of the United Nations (FAO) and the International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM) has generated advanced knowledge and expertise in support of achieving food security, sustainable agriculture, and rural development in the Mediterranean. Driven by these shared goals, FAO and CIHEAM have jointly contributed to policy dialogue, the implementation of programs and projects, awareness-raising, and the capacity development of different actors in the region. FAO-CIHEAM collaboration has helped to build important knowledge resources and technical networks, strengthen the focus on gender and youth in agriculture, and promote the sustainable development of rural and coastal areas and sustainable fisheries. In October 2015, both organizations signed a Memorandum of Understanding (MoU) reinforcing their partnership. Under the framework of the partnership agreement, FAO and CIHEAM committed to developing a common strategic cooperation agenda to support agriculture, food, and sustainable rural development in the Mediterranean. In June 2019, based on the success of this collaboration the MoU was renewed for another four years. This brochure presents the highlights and successes of the partnership between FAO and CIHEAM.

Transgovernance Jan 23 2020 'Transgovernance: Advancing Sustainability Governance' analyses the question what recent and ongoing changes in the relations between politics, science and media – together characterized as the emergence of a knowledge democracy – may imply for governance for sustainable development, on global and other levels of societal decision making, and the other way around: How can the discussion on sustainable development contribute to a knowledge democracy? How can concepts such as second modernity, reflexivity, configuration theory, (meta)governance theory and cultural theory contribute to a 'transgovernance' approach which goes beyond mainstream sustainability governance? This volume presents contributions from various angles: international relations, governance and metagovernance theory, (environmental) economics and innovation science. It offers challenging insights regarding institutions and transformation processes, and on the paradigms behind contemporary sustainability governance. This book gives the sustainability governance debate a new context. It transforms classical questions into new options for societal decision making and identifies starting points and strategies towards effective governance of transitions to sustainability.

Green and Sustainable Manufacturing of Advanced Material Mar 17 2022 Sustainable development is a globally recognized mandate and it includes green or environment-friendly manufacturing practices. Such practices orchestrate with the self-healing and self-replenishing capability of natural ecosystems. Green manufacturing encompasses synthesis, processing, fabrication, and process optimization, but also testing, performance evaluation and reliability. The book shall serve as a comprehensive and authoritative resource on sustainable manufacturing of ceramics, metals and their composites. It is designed to capture the diversity and unity of methods and approaches to materials processing, manufacturing, testing and evaluation across disciplines and length scales. Each chapter incorporates in-depth technical information without compromising the delicate link between factual data and fundamental concepts or between theory and practice. Green and sustainable materials processing and manufacturing is designed as a key enabler of sustainable development. A one-stop compendium of new research and technology of green manufacturing of metals, ceramics and their composites In-depth cutting-edge treatment of synthesis, processing, fabrication, process optimization, testing, performance evaluation and reliability which are of critical importance to green manufacturing Stimulates fresh thinking and exchange of ideas and information on approaches to green materials processing across disciplines

Advanced Intelligent Systems for Sustainable Development (AI2SD'2018) Apr 25 2020 This book gathers papers presented at the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2018), which was held in Tangiers, Morocco on 12–14 July 2018. Highlighting the latest research and advances in the field of healthcare, it shares essential insights into the health sector, and is intended to stimulate further discussion and promote closer interdisciplinary collaboration among researchers and health professionals.

Issues and trends in education for sustainable development May 07 2021 Education for Sustainable Development (ESD) is globally acknowledged as a powerful driver of change, empowering learners to make decisions and take actions needed to build a just and economically viable society respect ful of both the environment and cultural diversity.

Advanced Oxidation Technologies May 19 2022 Advanced Oxidation Technologies (AOTs) or Processes (AOPs) are relatively new and innovative technologies to remove harmful and toxic pollutants. The most important processes among them are those using light, such as UVC/H2O2, photo-Fenton and heterogeneous photocatalysis with TiO2. These technologies are also relatively low-cost and therefore useful for countries under development, where the economical resources are scarcer than in developed countries. This book provides a state-of-the-art overview on environmental applications of Advanced Oxidation Technologies (AOTs) as sustainable, low-cost and low-energy consuming treatments for water, air, and soil. It includes information on innovative research and development on TiO2 photocatalytic redox processes, Fenton, Photo-Fenton processes, zerovalent iron technology, and others, highlighting possible applications of AOTs in both developing and industrialized countries around the world in the framework of "A crosscutting and comprehensive look at environmental problems". The book is aimed at professionals and academics worldwide, working in the areas of water resources, water supply, environmental protection, and will be a useful information source for decision and policy makers and other stakeholders working on solutions for environmental problems.

Advancing Sustainable Development Goal 14 Mar 05 2021 This background note reviews current trends and projections of fish and seafood trade, and recent work undertaken to support implementation of the trade related activities of SDG 14, with a focus on the work of UNCTAD, FAO and UNEP. It flags the main issues encountered and sets the scene for the discussions of the Forum. It draws on the complementary experiences and mandates of UNCTAD, FAO and UNEP to make recommendations to key stakeholders and propose innovative approaches and tools around the oceans

Talk the Walk Dec 14 2021 Can corporate marketing foster sustainable consumption? Is there a strong business case? What are the key factors for successful marketing strategies and communication campaigns in that field? In answering these questions this book provides: a summary of existing research on consumers' attitudes towards green products; analysis of various marketing strategies and campaigns from pioneers companies and mainstream groups in sectors like clothing, cosmetics, food retail, and automotive; tips to communicate effectively and a practical toolbox for practitioners. This publication has been produced by UNEP, the Global Compact Office and Utopies (a French consultancy firm specialized in sustainable development strategies).

Moving Ahead with ISO 14000 Apr 06 2021 Moving Ahead with ISO 14000 addresses environmental quality management standards from the business manager's point of view. It examines the costs and benefits of conformance in terms of competitiveness, market share, and return on investment. Numerous case studies describe how other companies are responding to the new standards and help companies benchmark how close their operations are to conformance. Moving Ahead with ISO 14000 also helps business managers answer the following questions: * How are businesses around the world responding to ISO 14000? * Should our firm bother to seek ISO 14000 registration? * What are the business benefits of ISO 14000? * What does it take to comply with ISO 14000? * Does ISO matter to our customers? * Will these new standards help improve operations or bog them down in paperwork? * Can a company adhere to the new standards and develop a competitive advantage at the same time? * Should we self-certify? * Can we integrate ISO 14000 with our current environmental management policies and resources? With the release of the final series of international environmental quality management standards, thousands of companies worldwide are poised to jump onto the ISO 14000 bandwagon. But responsible managers need to answer a number of serious questions before investing in and launching such a major undertaking: What does it take to conform with ISO 14000? Will the benefits justify the costs? Does ISO 14000 conformance matter to our customers? Will it help increase our market share? In Moving Ahead with ISO 14000 more than 30 leading environmental management authorities answer these questions and many more with keen eye on business performance relative to the global goal of sustainability. These experts offer timely insights, case studies of leading-edge companies, and essential guidance to help companies ensure that improvements in environmental performance are accompanied by enhanced trade opportunities. They look at the standards from a management perspective and focus on five major aspects of ISO 14000, including * Responding to the new standards from a global business perspective * Integrating environmental factors and investment decisions * Optimizing resources to make conformance cost-effective * Leveraging current resources and systems to maximize return on ISO 14000 investment * Crafting new tools for business and environmental decisionmaking. A special section on life cycle assessment (LCA) surveys current LCA use in large corporations, compares its use in Japan to that in the United States, demonstrates market applications of LCA, and presents a case study of life cycle management at Chrysler Corporation. For environmental managers, EH&S professionals, senior corporate managers, and government policymakers, this book is not just another introduction to ISO 14000 but the ultimate guide for coping with the critical business issues that must be faced before sustainability can become a global reality.

Reclaiming Our Future Feb 04 2021 The publication describes pathways to achieve more inclusive and sustainable post-pandemic recovery in Asia and the Pacific. It identifies elements for a common agenda for present and future generations centered on protecting people and planet, leveraging on digital opportunities, trading and investing more together, raising financial resources and managing debt. It underlines the need to listen and work with the youth, placing women at the center for crisis-prepared policy action and new people-centric partnerships, with a readiness of the Economic and Social Commission for Asia and the Pacific (ESCAP) to serve.

Big Data Science and Analytics for Smart Sustainable Urbanism Dec 22 2019 We are living at the dawn of what has been termed 'the fourth paradigm of science,' a scientific revolution that is marked by both

the emergence of big data science and analytics, and by the increasing adoption of the underlying technologies in scientific and scholarly research practices. Everything about science development or knowledge production is fundamentally changing thanks to the ever-increasing deluge of data. This is the primary fuel of the new age, which powerful computational processes or analytics algorithms are using to generate valuable knowledge for enhanced decision-making, and deep insights pertaining to a wide variety of practical uses and applications. This book addresses the complex interplay of the scientific, technological, and social dimensions of the city, and what it entails in terms of the systemic implications for smart sustainable urbanism. In concrete terms, it explores the interdisciplinary and transdisciplinary field of smart sustainable urbanism and the unprecedented paradigmatic shifts and practical advances it is undergoing in light of big data science and analytics. This new era of science and technology embodies an unprecedentedly transformative and constitutive power—manifested not only in the form of revolutionizing science and transforming knowledge, but also in advancing social practices, producing new discourses, catalyzing major shifts, and fostering societal transitions. Of particular relevance, it is instigating a massive change in the way both smart cities and sustainable cities are studied and understood, and in how they are planned, designed, operated, managed, and governed in the face of urbanization. This relates to what has been dubbed data-driven smart sustainable urbanism, an emerging approach based on a computational understanding of city systems and processes that reduces urban life to logical and algorithmic rules and procedures, while also harnessing urban big data to provide a more holistic and integrated view or synoptic intelligence of the city. This is increasingly being directed towards improving, advancing, and maintaining the contribution of both sustainable cities and smart cities to the goals of sustainable development. This timely and multifaceted book is aimed at a broad readership. As such, it will appeal to urban scientists, data scientists, urbanists, planners, engineers, designers, policymakers, philosophers of science, and futurists, as well as all readers interested in an overview of the pivotal role of big data science and analytics in advancing every academic discipline and social practice concerned with data-intensive science and its application, particularly in relation to sustainability.

Advanced Membrane Science and Technology for Sustainable Energy and Environmental Applications Jul 21 2022 Membrane materials allow for the selective separation of gas and vapour and for ion transport. Materials research and development continues to drive improvements in the design, manufacture and integration of membrane technologies as critical components in both sustainable energy and clean industry applications. Membrane utilisation offers process simplification and intensification in industry, providing low-cost, and efficient and reliable operation, and contributing towards emissions reductions and energy security. Advanced membrane science and technology for sustainable energy and environmental applications presents a comprehensive review of membrane utilisation and integration within energy and environmental industries. Part one introduces the topic of membrane science and engineering, from the fundamentals of membrane processes and separation to membrane characterization and economic analysis. Part two focuses on membrane utilisation for carbon dioxide (CO₂) capture in coal and gas power plants, including pre- and post-combustion and oxygen transport technologies. Part three reviews membranes for the petrochemical industry, with chapters covering hydrocarbon fuel, natural gas and synthesis gas processing, as well as advanced biofuels production. Part four covers membranes for alternative energy applications and energy storage, such as membrane technology for redox and lithium batteries, fuel cells and hydrogen production. Finally, part five discusses membrane utilisation in industrial and environmental applications, including microfiltration, ultrafiltration, and forward osmosis, as well as water, wastewater and nuclear power applications. With its distinguished editors and team of expert contributors, Advanced membrane science and technology for sustainable energy and environmental applications is an essential reference for membrane and materials engineers and manufacturers, as well as researchers and academics interested in this field. Presents a comprehensive review of membrane science and technology, focusing on developments and applications in sustainable energy and clean-industry. Discusses the fundamentals of membrane processes and separation and membrane characterization and economic analysis. Addresses the key issues of membrane utilisation in coal and gas power plants and the petrochemical industry, the use of membranes for alternative energy applications and membrane utilisation in industrial and environmental applications.

Political Agroecology Apr 18 2022 Political Agroecology is the first book to offer a systematic and articulated reflection on Political Agroecology from the Agroecological perspective. It defines the disciplinary field responsible for designing and producing actions, institutions and regulations aimed at achieving agrarian sustainability. In short, it aims to build a political theory that makes the scaling-up of agroecological experiences possible, turning them into the foundation of a new and alternative food regime. The book proposes theoretical, practical and epistemological foundations of a new theoretical and practical field of work for agroecologists: Political Agroecology. It establishes a framework for a common agroecological strategy, covering the different levels of collective action and the different instruments with which it can be developed. This will be essential reading for agroecologists, environmentalists, farming and food communities, and an ideal textbook for advanced agroecology courses in universities. Key features: Offers a unique state of the art on this fundamental new topic: Political Agroecology. Presents a complete introduction to the political and institutional aspects of Agroecology, covering the whole food system. Offers an important tool for searching agrarian sustainability. Provides a broad epistemological, theoretical and methodological focus, exploring the connection between the different levels and scales involved in agroecological theory and practice.

Advancing Innovation and Sustainable Outcomes in International Graduate Education Dec 26 2022 The allocation of resources in international universities to adopt and institutionalize solutions must be prioritized above obsolete or wasteful practices. Changing economic and social cultures necessitate new and advancing educational strategies for the promotion of graduate student success. Advancing Innovation and Sustainable Outcomes in International Graduate Education is a critical scholarly resource that examines the impact of such drivers as technology and the Fourth Industrial Revolution and the need for a new approach to learning that directly impacts the teaching-learning process. Among the drivers that the book examines are the need for higher order and critical thinking, the need for developing cognitive and emotional intelligence with fluid intelligence enabling broad interdisciplinary thinking and wisdom, and the shifting values of millennials concerning the need for new approaches to education and attitudes to work. Underpinning the theme and chapters of this book is the need for ecosystemic thinking for sustainability framed from consciousness-based education. Featuring a wide range of topics such as data analytics, emotional intelligence, and workplace innovation, this book is ideal for educators, researchers, policymakers, curriculum designers, administrators, managers, academicians, and students.

Advanced Analytics for Green and Sustainable Economic Development Aug 18 2019 "This book focuses on the development of innovative techniques and tools that answer urgent questions in the global trend of sustainable economic development, providing researchers and business managers with a valuable resource for the development of green business and application of low carbon practices"--Provided by publisher.

Towards a Sustainable America Aug 22 2022

Advanced Computational Techniques for Sustainable Computing Sep 23 2022 Advanced Computational Techniques for Sustainable Computing is considered multi-disciplinary field encompassing advanced computational techniques across several domain, including, Computer Science, Statistical Computation and Electronics Engineering. The core idea of sustainable computing is to deploy algorithms, models, policies and protocols to improve energy efficiency and management of resources, enhancing ecological balance, biological sustenance and other services on societal contexts. The book offers comprehensive coverage of the most essential topics, and: Provides insight on building smart sustainable solutions. Includes details of applying mining, learning, IOT and sensor-based techniques for sustainable computing. Entails data extraction from various sources followed with pre-processing of data, and how to make effective use of extracted data for application-based research. Involves practical usage of data analytic language, including R, Python, etc. for improving sustainable services offered by multi-disciplinary domains. Encompasses comparison and analysis of recent technologies and trends. Includes development of smart models for information gain and effective decision making with visualization. The readers would get acquainted with the utilization of massive data sets for intelligent mining and processing. It includes the integration of data mining techniques for effective decision-making in the social, economic, and global environmental domains to achieve sustainability. The implementation of computational frameworks can be accomplished using open-source software for the building of resource-efficient models. The content of the book demonstrates the usage of data science and the internet of things for the advent of smart and realistic solutions for attaining sustainability.

Advanced Computational Techniques for Sustainable Computing Oct 20 2019 Sustainable computing is considered multi-disciplinary field encompassing advanced computational techniques across several domains and the core idea is to deploy algorithms, models, policies and protocols to improve energy efficiency and management of resources, recycling, ecological balance, biological sustenance on societal contexts.

Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods Nov 01 2020 Understanding the advancement of sustainable development is critical to managing human activities to avoid the overexploitation of resources and pollution of the environment beyond tolerable levels. Sustainable development involves not only preservation and care of the environment, but also recognition of the complex relations between economic, social and living systems. Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods presents processing methods and their applications, which are practical for decision making and task management at the regional level as well as for scientific studies in sustainable development assessment. This book serves as a reference guide for post-graduate students in the field of management as well as a critical guide for managers, government officials, and information professionals.

the-expert-library-staffing-sustaining-and-advancing-the-academic-library-in-the-21st-century

Bookmark File asset.winnetnews.com on January 27, 2023 Pdf For Free