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Fifty Years of Invasion Ecology The Legacy of Charles Elton John Wiley & Sons Invasion ecology is the study of the causes and consequences of the introduction of organisms to areas outside their native range. Interest in this field has exploded in the past few decades. Explaining why and how organisms are moved around the world, how and why some become established and invade, and how best to manage invasive species in the face of global change are all crucial issues that interest biogeographers, ecologists and environmental managers in all parts of the world. This book brings together the insights of more than 50 authors to examine the origins, foundations, current dimensions and potential trajectories of invasion ecology. It revisits key tenets of the foundations of invasion ecology, including contributions of pioneering naturalists of the 19th century, including Charles Darwin and British ecologist Charles Elton, whose 1958 monograph on invasive species is widely acknowledged as having focussed scientific attention on biological invasions. **The Past, Present, and Future of Integrated History and Philosophy of Science** Routledge Integrated History and Philosophy of Science (IHPS) is commonly understood as the study of science from a combined historical and philosophical perspective. Yet, since its gradual formation as a research field, the question of how to suitably integrate both perspectives remains open. This volume presents cutting edge research from junior IHPS scholars, and in doing so provides a snapshot of current developments within the field, explores the connection between IHPS and other academic disciplines, and demonstrates some of the topics that are attracting the attention of scholars who will help define the future of IHPS. **EKC2008 Proceedings of the EU-Korea Conference on Science and Technology** Springer Science & Business Media Current research fields in science and technology were presented and discussed at the EKC2008, informing about the interests and directions of the scientists and engineers in EU countries and Korea. The Conference has emerged from the idea of bringing together EU and Korea to get to know each other better, especially in fields of science and technology. The focus of the conference is put on the topics: Computational Fluid Dynamics; Mechatronics and Mechanical Engineering; Information and Communications Technology; Life and Natural Sciences; Energy and Environmental Technology. **Assessing and Responding to the Growth of Computer Science Undergraduate Enrollments** National Academies Press The field of computer science (CS) is currently experiencing a surge in undergraduate degree production and course enrollments, which is straining program resources at many institutions and causing concern among faculty and administrators about how best to respond to the rapidly growing demand. There is also significant interest about what this growth will mean for the future of CS programs, the role of computer science in academic institutions, the field as a whole, and U.S. society more broadly. **Assessing and Responding to the Growth of Computer Science Undergraduate Enrollments** seeks to provide a better understanding of the current trends in computing enrollments in the context of past trends. It examines drivers of the current enrollment surge, relationships between the surge and current and potential gains in diversity in the field, and the potential impacts of responses to the increased demand for computing in higher education, and it considers the likely effects of those responses on students, faculty, and institutions. This report provides recommendations for what institutions of higher education, government agencies, and the private sector can do to respond to the surge and plan for a strong and sustainable future for the field of CS in general, the health of the institutions of higher education, and the prosperity of the nation. **ICICKM2008- 5th International Conference on Intellectual Capital, Knowledge Management and Organisational Learning ICICKM 2008 Academic Conferences Limited TARGET SNAP 2018 (Past Papers 2005 - 2017) + 5 Mock Tests 10th Edition** Disha Publications TARGET SNAP 2018 - Past (2005 - 2017) + 5 Mock Tests contains the detailed solutions of SNAP Question Papers from 2005 to 2017. The book also contains 5 Mock tests designed exactly as per the latest pattern of SNAP. The book also contains a General Awareness Question Bank containing 100+ MCQ's involving current issues similar to the ones asked in the actual exam. As the pattern of SNAP is changing every year so different patterns have been incorporated in the Mock Tests. **TARGET SNAP 2019 (Past Papers 2005 - 2018) + 5 Mock Tests 11th Edition** Disha Publications TARGET SNAP 2017 (Past Papers 2005 - 2016) + 5 Mock Tests - 9th Edition Disha Publications TARGET SNAP 2017 - Past (2005 - 2016) + 5 Mock Tests" contains the detailed solutions of SNAP Question Papers from 2005 to 2016. The book also contains 5 Mock tests designed exactly as per the latest pattern of SNAP. As the pattern of SNAP is changing every year so different patterns have been incorporated in the Mock Tests. **TARGET SNAP 2021 (Past Papers 2005 - 2020) + 5 Mock Tests 13th Edition** Disha Publications **The Art of Getting Computer Science PhD** Xlibris Corporation The Art of Getting Computer Science PhD is an autobiographical book where Emdad Ahmed highlighted the experiences that he has gone through during the past 25 years (1988-2012) in various capacities both as Computer Science student as well as Computer Science faculty at different higher educational institutions in USA, Australia and Bangladesh. This book will be a valuable source of reference for computing professional at large. In the 150 pages book Emdad Ahmed tells the story in a lively manner balancing computer science hard job and life. **Disability & International Development Towards Inclusive Global Health** Springer Science & Business Media One of the greatest challenges facing modern global health is how to include the most marginalized and impoverished people in international efforts to promote social and economic development. In Disability and International Development disability rights are situated within the broader context of global health and the need for much greater inter-sector collaboration. Reports from a broad cross-section of low- and middle-income countries—locales as diverse as Zimbabwe, Bolivia, Kyrgyzstan, and Papua New Guinea—move beyond surface discussions of "what is working" and "what shows promise" to discuss political and governance contexts, the roles of disabled persons in research by outsiders, concurrent struggles (e.g., women's or children's rights), and instructive inroads made by community activists and national Disabled People's Organizations. The results are provocative, and offer new lenses for viewing both the issues and the populations they affect. Each of the book's chapters spotlights a topic as representative of the enormity and immediacy of challenges to inclusive global health, including: The impact of international human rights law on domestic law and local traditions. The effect of failed states on the lives of people with disabilities. Empowerment and advocacy: disability organizations and movements. HIV/AIDS interventions with disabled persons. Assistive technologies in low-income countries. Strategies for improving the lives of children with disabilities. Cross-disciplinary as well as cross-cultural, Disability and International Development will attract a wide audience of professionals in rehabilitation, social welfare and human rights; governmental and non-governmental organizations and disabled people's organizations; researchers and practitioners. It will also be relevant to those working in health and welfare administration, health policy, international aid and development, and human rights. In addition, graduate students in disability studies, public and global health and international development should find this an important guide to the future of these fields. **Encyclopedia of Information Science and Technology, Fourth Edition** IGI Global In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library. **The Politics and Crisis Management of Animal Health Security** Routledge The Politics and Crisis Management of Animal Health Security addresses the 2001 foot and mouth epidemic in the United Kingdom - one of, if not the, most significant crises ever to face the UK farming industry. Underpinned by interviews with politicians and bureaucrats and with significant primary documentary analysis the book shows that the crisis was a critical juncture in how disease outbreaks have been planned and managed ever since. The author explores how this event affected policy and governance arrangements for managing subsequent disease-induced threats (such as avian influenza and bovine TB) and concludes by considering the 'temporality' of lesson learning by the UK government including the current and future challenges associated with managing incongruent risks (e.g., flood protection, swine flu and Ebola). This book provides students of public policy and administration with a significant illustration of how key concepts and analytical lenses from public policy can be applied to the study of the contours of practical policy change. **Landslide Science and Practice Volume 2: Early Warning, Instrumentation and Monitoring** Springer Science & Business Media This book contains peer-reviewed papers from the Second World Landslide Forum, organised by the International Consortium on Landslides (ICL), that took place in September 2011. The entire material from the conference has been split into seven volumes, this one is the second: 1. Landslide Inventory and Susceptibility and Hazard Zoning, 2. Early Warning, Instrumentation and Monitoring, 3. Spatial Analysis and Modelling, 4. Global Environmental Change, 5. Complex Environment, 6. Risk Assessment, Management and Mitigation, 7. Social and Economic Impact and Policies. **Telecommunication Networks** CRC Press Many argue that telecommunications network infrastructure is the most impressive and important technology ever developed. Analyzing the telecom market's constantly evolving trends, research directions, infrastructure, and vital needs, Telecommunication Networks responds with revolutionized engineering strategies to optimize network construction. Omnipresent in society, telecom networks integrate a wide range of technologies. These include quantum field theory for the study of optical amplifiers, software architectures for network control, abstract algebra required to design error correction codes, and network, thermal, and mechanical modeling for equipment platform design. Illustrating how and why network developers make technical decisions, this book takes a practical engineering approach to systematically assess the network as a whole—from transmission to switching. Emphasizing a uniform bibliography and description of standards, it explores existing technical developments and the potential for projected alternative architectural paths, based on current market indicators. The author characterizes new device and equipment advances not just as quality improvements, but as specific responses to particular technical market necessities. Analyzing design problems to identify potential links and commonalities between different parts of the system, the book addresses interdependence of these elements and their individual influence on network evolution. It also considers power consumption and real estate, which sometimes outweigh engineering performance data in determining a product's success. To clarify the potential and limitations of each presented technology and system analysis, the book includes quantitative data inspired by real products and prototypes. Whenever possible, it applies mathematical modeling to present measured data, enabling the reader to apply demonstrated concepts in real-world situations. Covering everything from high-level architectural elements to more basic component physics, its focus is to solve a problem from different perspectives, and bridge descriptions of well-consolidated solutions with newer research trends. **UNESCO Science Report 2010 The Current Status of Science Around the World** UNESCO Analyses the current state of science around the globe as well the trends that have emerged since the previous report published in 2005. **Relocating the History of Science Essays in Honor of Kostas Gavroglu** Springer This volume is put together in honor of a distinguished historian of science, Kostas Gavroglu, whose work has won international acclaim, and has been pivotal in establishing the discipline of history of science in Greece, its consolidation in other countries of the European Periphery, and the constructive dialogue of these emerging communities with an extended community of international scholars. The papers in the volume reflect Gavroglu's broad range of intellectual interests and touch upon significant themes in recent history and philosophy of science. They include topics in the history of modern physical sciences, science and technology in the European periphery, integrated history and philosophy of science, historiographical considerations, and intersections with the history of mathematics, technology and contemporary issues. They are authored by eminent scholars whose academic and personal trajectories crossed with Gavroglu's. The book will interest historians and philosophers of science and technology alike, as well as science studies scholars, and generally readers interested in the role of the sciences in the past in various geographical contexts. **The Car-dependent Society A European Perspective** Routledge Cars are essential in modern Western societies. Some even say that our modern lifestyles would have been impossible without cars. The dependency of Western societies on our cars is a unique situation in history, but does not get much attention: car use is seen as just a normal situation. The population at large knows the risks, knows the disadvantages, experiences the advantages and keeps driving. Using data from Western Europe, this book examines three key themes: frequent car use, car dependence, and the future of passenger car mobility in societies. In conclusion, in modern Western risk societies, more attention needs to be paid to car dependence, its driving forces, its advantages, its problems and challenges for the future. **Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced**

Methods System Approaches and Advanced Methods IGI Global 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. **Language Across the Curriculum & CLIL in English as an Additional Language (EAL) Contexts Theory and Practice** Springer This book will be of interest to a broad readership, regardless of whether they have a background in sociolinguistics, functional linguistics or genre theories. It presents an accessible "meta-language" (i.e. a language for talking about language) that is workable and usable for teachers and researchers from both language and content backgrounds, thus facilitating collaboration across content and language subject panels. Chapters 1 to 3 lay the theoretical foundation of this common meta-language by critically reviewing, systematically presenting and integrating key theoretical resources for teachers and researchers in this field. In turn, Chapters 4 to 7 focus on issues in pedagogy and assessment, and on school-based approaches to LAC and CLIL, drawing on both research studies and the experiences of front-line teachers and school administrators. Chapter 8 provides a critical and reflexive angle on the field by asking difficult questions regarding how LAC and CLIL are often situated in contexts characterized by inequality of access to the linguistic and cultural capitals, where the local languages of the students are usually neglected or viewed unfavourably in relation to the L2 in mainstream society, and where teachers are usually positioned as recipients of knowledge rather than makers of knowledge. In closing, Chapter 9 reviews the state of the art in the field and proposes directions for future inquiry. **Empowering Science and Mathematics for Global Competitiveness Proceedings of the Science and Mathematics International Conference (SMIC 2018), November 2-4, 2018, Jakarta, Indonesia** CRC Press This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics. The proceedings consist of 82 papers presented at the Science and Mathematics International Conference (SMIC) 2018, organised by the Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, Indonesia. The proceedings are organised in four parts: Science, Science Education, Mathematics, and Mathematics Education. The papers contribute to our understanding of important contemporary issues in science, especially nanotechnology, materials and environmental science; science education, in particular, environmental sustainability, STEM and STEAM education, 21st century skills, technology education, and green chemistry; and mathematics and its application in statistics, computer science, and mathematics education. **Handbook on Climate Change and Agriculture** Edward Elgar Publishing Ö . . . this book is a very useful resource for the lawyer. . . makes a good start by presenting a wide-ranging portfolio of multidisciplinary research that will assist in progressing the task, challenging though it may be. ð Chris Rodgers, Environmental Liability This book explores the interaction between climate change and the agriculture sector. Agriculture is essential to the livelihood of people and nations, especially in the developing world; therefore, any impact on it will have significant economic, social, and political ramifications. Scholars from around the world and from various fields have been brought together to explore this important topic. The contributions found here analyze direct agronomic effects, the economic impacts on agriculture, agricultural impacts on the economy, agricultural mitigation, and farmer adaptation. The authors argue that climate change is likely to have an extensive impact on agriculture around the world through changes in temperature, precipitation, concentrations of carbon dioxide, and available water flows. This thorough and timely volume is an invaluable resource for anyone interested in exploring the impacts of climate change in arguably the most important sector of the world economy. Economists, agronomists, and climate modelers in academia and the public sector, policy analysts and development agency staff, and graduate/postgraduate students will find this remarkable volume a welcome addition to their collection. **Science Under Siege Scientific Integrity at the Environmental Protection Agency : Hearing Before the Subcommittee on Oversight and Investigations of the Committee on Energy and Commerce, House of Representatives, One Hundred Tenth Congress, Second Session, September 18, 2008 Review of the Literature on the Links Between Biodiversity and Climate Change Impacts, Adaptation, and Mitigation** UNEP/Earthprint The Intergovernmental Panel on Climate Change 4th Assessment Report (AR4) concluded that climate change will have significant impacts on many aspects of biological diversity: On ecosystems, species, genetic diversity within species, and on ecological interactions. The implications of these impacts are significant For The long-term stability of the natural world and For The many benefits and services that humans derive from it. This report reviews the literature since the AR4. it draws on recent research to summarise advances in our understanding of the impacts of climate change on biodiversity. The evidence For The impacts on biodiversity comes from three principal sources. First, from direct observation of changes in components of biodiversity in nature that can be clearly related to changes in climatic variables. Second, experimental studies using manipulations to elucidate responses to climate change. Finally, and most widely, from modelling studies where our current understanding of the requirements and constraints on the distribution of species and ecosystems are combined with modelled changes in climatic variables to project the impacts of climate change and predict future distributions and changes in populations. **Computational Science and Its Applications - ICCSA 2014 14th International Conference, Guimarães, Portugal, June 30 - July 3, 2014, Proceedings, Part II** Springer The six-volume set LNCS 8579-8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications, ICCSA 2014, held in Guimarães, Portugal, in June/July 2014. The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167. The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security. **Handbook of Research on Hybrid Learning Models: Advanced Tools, Technologies, and Applications Advanced Tools, Technologies, and Applications** IGI Global "This book focuses on Hybrid Learning as a way to compensate for the shortcomings of traditional face-to-face teaching, distance learning, and technology-mediated learning"--Provided by publisher. **Handbook of Child Psychology and Developmental Science, Socioemotional Processes** John Wiley & Sons The essential reference for human development theory, updated and reconceptualized The Handbook of Child Psychology and Developmental Science, a four-volume reference, is the field-defining work to which all others are compared. First published in 1946, and now in its Seventh Edition, the Handbook has long been considered the definitive guide to the field of developmental science. Volume 3: Social, Emotional, and Personality Development presents up-to-date knowledge and theoretical understanding of the several facets of social, emotional and personality processes. The volume emphasizes that any specific processes, function, or behavior discussed in the volume co-occurs alongside and is inextricably affected by the dozens of other processes, functions, or behaviors that are the focus of other researchers' work. As a result, the volume underscores the importance of a focus on the whole developing child and his or her sociocultural and historical environment. Understand the multiple processes that are interrelated in personality development Discover the individual, cultural, social, and economic processes that contribute to the social, emotional, and personality development of individuals Learn about the several individual and contextual contributions to the development of such facets of the individual as morality, spirituality, or aggressive/violent behavior Study the processes that contribute to the development of gender, sexuality, motivation, and social engagement The scholarship within this volume and, as well, across the four volumes of this edition, illustrate that developmental science is in the midst of a very exciting period. There is a paradigm shift that involves increasingly greater understanding of how to describe, explain, and optimize the course of human life for diverse individuals living within diverse contexts. This Handbook is the definitive reference for educators, policy-makers, researchers, students, and practitioners in human development, psychology, sociology, anthropology, and neuroscience. **Historic Firsts How Symbolic Empowerment Changes U.S. Politics** OUP Us The 2008 presidential election made American history. Yet before Barack Obama and Hillary Clinton, there were other "historic firsts": Shirley Chisholm, who ran for president in 1972, and Jesse Jackson, who ran in 1984 and 1988. While unsuccessful, these campaigns were significant, as they rallied American voters across various racial, ethnic, and gender groups. One can also argue that they heightened the electoral prospects of future candidates. Can "historic firsts" bring formerly politically inactive people (those who previously saw no connection between campaigns and their own lives) into the electoral process, making it both relevant and meaningful? In *Historic Firsts: How Symbolic Empowerment Changes U.S. Politics*, Evelyn M. Simien makes the compelling argument that voters from various racial, ethnic, and gender groups take pride in and derive psychic benefit from such historic candidacies. They make linkages between the candidates in question and their own understanding of representation, and these linkages act to mobilize citizens to vote and become actively involved in campaigns. Where conventional approaches to the study of American political elections tend to focus on socioeconomic factors, or to study race or gender as isolated factors, Simien's approach is intersectional, bringing together literature on both race and gender. In particular she compares the campaigns of Jackson, Chisholm, Obama and Clinton, and she draws upon archival material from campaign speeches, advertising, and newspaper articles, to voter turnout reports, exit polls, and national surveys to discover how race and gender determined the electoral context for the campaigns. In the process, she reveals the differences that exist within and between various racial, ethnic and gender groups in the American political process at the presidential level. **Integrated Environmental Modelling to Solve Real World Problems Methods, Vision and Challenges** Geological Society of London The discipline of Integrated Environmental Modelling (IEM) has developed in order to solve complex environmental problems, for example understanding the impacts of climate change on the physical environment. IEM provides methods to fuse or link models together, this in turn requires facilities to make models discoverable and also to make the outputs of modelling easily visualized. The vision and challenges for IEM going forward are summarized by leading proponents. Several case studies describe the application of model fusion to a range of real-world problems including integrating groundwater and recharge models within the UK Environment Agency, and the development of 'catastrophe' models to predict better the impact of natural hazards. Communicating modelling results to end users who are often not specialist modellers is also an emerging area of research addressed within the volume. Also included are papers that highlight current developments of the technology platforms underpinning model fusion. **Science Diplomacy New Day Or False Dawn?** World Scientific As modern foreign policy and international relations encompass more and more scientific issues, we are moving towards a new type of diplomacy, known as "Science Diplomacy". Will this new diplomacy of the 21st century prove to be more effective than past diplomacy for the big issues facing the world, such as climate change, food and water insecurity, diminishing biodiversity, pandemic disease, public health, genomics or environmental collapse, mineral exploitation, health and international scientific endeavours such as those in the space and the Antarctic? Providing a new area of academic focus that has only gathered momentum in the last few years, this book considers these questions by bringing together a distinguished team of international specialists to look at various facets of how diplomacy and science are influenced by each other. The book not only dissects the ways that politics, science and diplomacy have become intertwined, but also highlights how the world's seemingly most intractable problems can be tackled with international collaboration and diplomacy that is rooted in science, and driven by technology. It, therefore, challenges the conventional wisdom concerning the juxtaposition of science and the world of diplomacy. **Art Book News Annual, volume 4: 2008** Art Book News Annual, volume 4: 2008 Book News Inc. **Service-Oriented Perspectives in Design Science Research 6th International Conference, DESRIST 2011, Milwaukee, WI, USA, May 5-6, 2011, Proceedings** Springer This book constitutes the refereed proceedings of the 6th International Conference on Service-Oriented Perspectives in Design Science Research, DERIST 2011, held in Milwaukee, WI, USA, in May 2011. The 29 revised full papers presented together with 5 revised short papers were carefully reviewed and selected from 50 submissions. The papers are organized in topical sections on design theory, design science research strategies, design methods and techniques, design evaluation, design guidelines, service-oriented perspectives in design science, process design, neuroscience in design research, and designing for social media. **Integrated Science in Digital Age ICIS 2019** Springer This book gathers selected papers presented at the 2019 International Conference on Integrated Science in Digital Age (ICIS 2019), which was jointly supported by the Institute of Certified Specialists (ICS), Russia and Springer and held in Batumi, Georgia on May 10-12, 2019. The ICIS 2019 received roughly 50 contributions, by authors hailing from six countries. Following a peer-review process, the Scientific Committee - a multidisciplinary group of 110 experts from 38 countries around the globe - selected roughly 60% for publication. The main topics covered include: Artificial Intelligence Research; Digital Business & Finance; Educational Sciences; Health Management Informatics; Public Administration in the Digital Age; and Social Problem-solving. **The Environmental Food Crisis The Environment's Role in Averting Future Food Crises : a UNEP Rapid Response Assessment** UNEP/Earthprint This document analyzes the state of world food. The three first chapters explain the world food crisis, demand, need and supply. The two following chapters highlight the impacts of environmental degradation on yield and the impacts of expansion of food production on biodiversity and ecosystems. The solutions are explained in two chapters with detailed description of the seven sustainable options for increasing food security.--Publisher's description. **Climate Dynamics in Horticultural Science, Volume One The Principles and Applications** CRC Press Climate change and increased climate variability in terms of rising temperatures, shifting rainfall patterns, and increasing extreme weather events, such as severe drought and devastating floods, pose a threat to the production of agricultural and horticultural crops—a threat this is expected to worsen. Climate change is already affecting—and is likely to increase—invasive species, pests, and disease vectors, all adversely affecting agri-horticultural crop productivity. Advances in agricultural knowledge, science, and technology will be required to develop improved crop traits, such as temperature, drought, pest, and salt tolerance. This two-volume set gives readers an understanding of the issues and makes suggestions for ways to mitigate adverse climate change effects on crops. The focus of Volume 1: The Principles and Applications in Horticultural

Science is to identify impacts and suggest appropriate and effective adaptation and mitigation strategies. Volume 2: Impact, Adaptation, and Mitigation focuses on the impact of climate change on horticultural crops and offers ways to adapt practices to mitigate adverse effects. Together, the two volumes offer a diverse selection of chapters that address issues of importance to those in the horticulture industry, researchers, faculty, and others. The two-volume set: • Provides a recent understanding about climate change effects on horticulture • Covers unique information regarding important fruit crops, including flowers, spices, and plantation crops • Serves as an excellent source for researchers to formulate their adaptation and mitigation strategies • Covers abiotic and biotic stresses in relation to climate change • Presents environmentally safe and recent technological approaches such as nanotechnology and biodynamics • Includes case studies The books are an excellent resource for researchers; instructors; students in agriculture, horticulture, environmental science, and other allied subjects; and policymakers.

Managing IT in Construction/Managing Construction for Tomorrow CRC Press Managing IT in Construction/Managing Construction for Tomorrow presents new developments in:- Managing IT strategies - Model based management tools including building information modeling- Information and knowledge management- Communication and collaboration - Data acquisition and storage- Visualization and simulation- Architectural design and **Bionanotechnology II Global Prospects** CRC Press The impact and importance of nanotechnology continues to grow, and nanomedicine and biotechnology have become areas of increased development. Biomedical engineers who work with biological processes and structures must have a deeply rooted understanding of the role of bionanotechnology, a rapidly evolving sector of the nanotechnology field. Bionanotechnology II: Global Prospects, a follow-up to the editor's highly successful first volume, contains 26 entirely new contributions that provide a broad survey of research shaping this critical field. With coverage of technical and nontechnical areas, the book offers representative reporting on a wide variety of activity from around the world. It discusses the role of nanotechnology in novel medical devices, bioanalytical technologies, and nanobiomaterials. Topics discussed include: Emerging microscale technologies Bionanotech-based water treatment Tissue engineering and drug delivery Antimicrobial nanomaterials in the textile industry Bionanotechnology applications in plants and agriculture With contributions from researchers in Israel, Egypt, Iran, Jordan, Singapore, South Africa, Turkey, Thailand, Argentina, the United Kingdom, and the United States, this volume presents a worldwide perspective on some of the critical areas shaping bionanotechnology today.

Innovating STEM Education: Increased Engagement and Best Practices Common Ground Research Networks In recent years, there has been a focus on promoting the uptake of STEM subjects in schools. This has been driven by the need to ensure that young people gain the knowledge and skills essential to help them participate in a society in which mathematics, science and technology are increasingly important. Nevertheless, reform efforts, including curriculum development, have treated the STEM subjects mostly in isolation. Recognizing that efforts for education within each individual STEM discipline would encourage a wide range of conversations about different important aspects of teaching and learning, this conference considered the potential benefits and challenges for the integration of various STEM's characteristics into education. In order to prepare students to address the problems of our society, it is necessary to provide them with opportunities to understand these problems through rich, engaging and powerful experiences that integrate the disciplines of STEM. This volume contains selected papers presented at the Hellenic Conferences "Innovating STEM education - HiSTEM 2016 and 2018" organized by the Postgraduate Program "Interdisciplinary Approach on Science, Technology, Engineering and Mathematics in Education - STEM Education" (stemeducation.upatras.gr). The first eleven papers were presented at the HiSTEM 2016 Conference and the last six papers at the HiSTEM 2018 Conference. These papers were selected after a peer review process from the conferences' submitted papers. The conferences provided a platform for dissemination of best practices in teaching and learning STEM in Greece and also inspired and empowered STEM educators to improve teaching quality, to increase engagement in STEM education and career pathways, to connect students with real life industry relevancy and to drive creativity, inquiry-based learning, problem-solving and project-based learning.

Teaching Science and Investigating Environmental Issues with Geospatial Technology Designing Effective Professional Development for Teachers Springer Science & Business Media The emerging field of using geospatial technology to teach science and environmental education presents an excellent opportunity to discover the ways in which educators use research-grounded pedagogical commitments in combination with their practical experiences to design and implement effective teacher professional development projects. Often missing from the literature are in-depth, explicit discussions of why and how educators choose to provide certain experiences and resources for the teachers with whom they work, and the resulting outcomes. The first half of this book will enable science and environmental educators to share the nature and structure of large scale professional development projects while discussing the theoretical commitments that undergird their work. Many chapters will include temporal aspects that present the ways in which projects change over time in response to evaluative research and practical experience. In the second half of the book, faculty and others whose focus is on national and international scales will share the ways in which they are working to meet the growing needs of teachers across the globe to incorporate geospatial technology into their science teaching. These efforts reflect the ongoing conversations in science education, geography, and the geospatial industry in ways that embody the opportunities and challenges inherent to this field. This edited book will serve to define the field of teacher professional development for teaching science using geospatial technology. As such, it will identify short term and long term objectives for science, environmental, and geography educators involved in these efforts. As a result, this book will provide a framework for future projects and research in this exciting and growing field.