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Symposium on Biomathematics Data-Centric Biology Why Science and Faith Need Each Other
Teaching Science Online Artificial Intelligence Applications In Human Pathology Bio-
Nanoparticles Healthcare Ethics and Training: Concepts, Methodologies, Tools, and Applications
Healthcare Policy and Reform: Concepts, Methodologies, Tools, and Applications Project-Based
Writing in Science The Comprehensive Guide to Science and Faith International Conference on
Present Day Biology A Bastion for Social and Sustainable Development Atlas of Knowledge Bio-
Based Materials as Applicable, Accessible, and Affordable Healthcare Solutions Routledge
Handbook of Environmental Journalism The Patient Will See You Now Heavy White Lies: Racism,
Education and Critical Race Theory Wild Life A Dangerous Master Endangered Species The Engaged
Sociologist Proprioception in Orthopaedics, Sports Medicine and Rehabilitation Collateral
Values Ecopsychology The New Wild Oceanographic and Marine Cross-Domain Data Management for
Sustainable Development OUCH! The Pain of Modern Civilization The African Mobile Story
Evidence for Psi Veterinary Science: Breakthroughs in Research and Practice Intelligent
Technologies and Parkinson's Disease: Prediction and Diagnosis The Risk of Skilled Scientist
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Symposium on Biomathematics 2014

in recent decades there has been a major shift in the way researchers process and understand scientific data digital access to data has revolutionized ways of doing science in the biological and biomedical fields leading to a data intensive approach to research that uses innovative methods to produce store distribute and interpret huge amounts of data in data centric biology sabina leonelli probes the implications of these advancements and confronts the questions they pose are we witnessing the rise of an entirely new scientific epistemology if so how does that alter the way we study and understand life including ourselves leonelli is the first scholar to use a study of contemporary data intensive science to provide a philosophical analysis of the epistemology of data in analyzing the rise internal dynamics and potential impact of data centric biology she draws on scholarship across diverse fields of science and the humanities as well as her own original empirical material to pinpoint the conditions under which digitally available data can further our understanding of life bridging the divide between historians sociologists and philosophers of science data centric biology offers a nuanced account of an issue that is of fundamental importance to our understanding of contemporary scientific practices

Data-Centric Biology 2016-11-18

science and faith are often seen as being in opposition in this book award winning sociologist elaine howard ecklund questions this assumption based on research she has conducted over the past fifteen years she highlights the ways these two spheres point to universal human values showing readers they don't have to choose between science and christianity breathing fresh air into debates that have consisted of more opinions than data ecklund offers insights uncovered by her research and shares her own story of personal challenges and lessons in the areas most rife with conflict the origins of the universe evolution climate change and genetic technology readers will find fascinating points of convergence in eight virtues of human existence curiosity doubt humility creativity healing awe shalom and gratitude the book includes discussion questions for group use and to help pastors small group leaders and congregants broach controversial topics and bridge the science faith divide

Why Science and Faith Need Each Other 2020-05-19

with the increasing focus on science education growing attention is being paid to how science is taught educators in science and science related disciplines are recognizing that distance delivery opens up new opportunities for delivering information providing interactivity collaborative opportunities and feedback as well as for increasing access for students this book presents the guidance of expert science educators from the us and from around the globe they describe key concepts delivery modes and emerging technologies and offer models of practice the book places particular emphasis on experimentation lab and field work as they are fundamentally part of the education in most scientific disciplines chapters include discipline methodology and teaching strategies in the specific areas of physics biology chemistry and earth sciences an overview of the important and appropriate learning technologies icts for each major science best practices for establishing and maintaining a successful course online insights and tips for handling practical components like laboratories and field work coverage of breaking topics including moocs learning analytics open educational resources and m learning strategies for engaging your students online

Teaching Science Online 2023-07-03

artificial intelligence applications in human pathology deals with the latest topics in biomedical research and clinical cancer diagnostics with chapters provided by true international experts in the field this book gives real examples of the implementation of ai and machine learning in human pathology advances in machine learning and ai in general have propelled computational and general pathology research today computer systems approach the diagnostic levels achieved by humans for certain well defined tasks in pathology at the same time pathologists are faced with an increased workload both quantitatively numbers of cases and qualitatively the amount of work per case with increasing treatment options and the type of data delivered by pathologists also expected to become more fine grained ai will support and leverage mathematical tools and implement data driven methods as a center for data interpretation in modern tissue diagnosis and pathology digital or computational pathology will also foster the training of future computational pathologists those with both pathology

and non pathology backgrounds who will eventually decide that ai based pathology will serve as an indispensable hub for data related research in a global health care system some of the specific topics explored within include an introduction to dl as applied to pathology standardized tissue sampling for automated analysis integrating computational pathology into histopathology workflows readers will also find examples of specific techniques applied to specific diseases that will aid their research and treatments including but not limited to tissue cartography for colorectal cancer ki 67 measurements in breast cancer and light sheet microscopy as applied to virtual histology the key role for pathologists in tissue diagnostics will prevail and even expand through interdisciplinary work and the intuitive use of an advanced and interoperating ai supported pathology workflow delivering novel and complex features that will serve the understanding of individual diseases and of course the patient

Artificial Intelligence Applications In Human Pathology **2022-03-04**

nanoparticles are the building blocks for nanotechnology they are better built long lasting cleaner safer and smarter products for use across industries including communications medicine transportation agriculture and other industries controlled size shape composition crystallinity and structure dependent properties govern the unique properties of nanotechnology bio nanoparticles biosynthesis and sustainable biotechnological implications explores both the basics of and advancements in nanoparticle biosynthesis the text introduces the reader to a variety of microorganisms able to synthesize nanoparticles provides an overview of the methodologies applied to biosynthesize nanoparticles for medical and commercial use and gives an overview of regulations governing their use authored by leaders in the field bio nanoparticles biosynthesis and sustainable biotechnological implications bridges the gap between biology and technology and is an invaluable resource for students and researchers alike

Bio-Nanoparticles 2015-03-30

the application of proper ethical systems and education programs is a vital concern in the medical industry when healthcare professionals are held to the highest moral and training standards patient care is improved healthcare ethics and training concepts methodologies tools and applications is a comprehensive source of academic research material on methods and techniques for implementing ethical standards and effective education initiatives in clinical settings highlighting pivotal perspectives on topics such as e health organizational behavior and patient rights this multi volume work is ideally designed for practitioners upper level students professionals researchers and academics interested in the latest developments within the healthcare industry

Healthcare Ethics and Training: Concepts, Methodologies, Tools, and Applications 2017-03-28

industry professionals government officials and the general public often agree that the modern healthcare system is in need of an overhaul with many organizations concerned with the long term care of patients new strategies practices and organizational tools must be developed to optimize the current healthcare system healthcare policy and reform concepts methodologies tools and applications is a comprehensive source of academic material on the importance of policy and policy reform initiatives in modern healthcare systems highlighting a range of topics such as public health effective care delivery and health information systems this multi volume book is designed for medical practitioners medical administrators professionals academicians and researchers interested in all aspects of healthcare policy and reform

Healthcare Policy and Reform: Concepts, Methodologies, Tools, and Applications 2018-08-03

turn your students into scientists who use their knowledge and creativity to solve real world

problems each lesson features a step by step guide a summary of recent research and handouts that are classroom ready learn about the three levels of writing from a level 1 quickwrite to a formal multi part level 3 research paper each writing assignment narrative persuasive and informative includes a detailed rubric that makes grading easy students collaborate to contain an outbreak of avian flu lead a group of people trying to survive under harsh conditions battle drought in a densely populated city in the american southwest research the behavior of animals in the local region and calculate their own speed velocity and momentum engaging and demanding project based writing in science helps students to understand and improve the world

Project-Based Writing in Science 2014-09-23

science and faith can and do support each other science and christianity are often presented as opposites when in fact the order of the universe and the complexity of life powerfully testify to intelligent design with this comprehensive resource that includes the latest research you ll witness how the findings of scientists provide compelling reasons to acknowledge the mind and presence of a creator featuring more than 45 entries by top caliber experts you ll better understand how scientific concepts like intelligent design are supported by evidence the scientific findings that support the history and accounts found in the bible the biases that lead to scientific information being presented as a challenge rather than a complement to christianity whether you re looking for answers to your own questions or seeking to explain the case for intelligent design to others the comprehensive guide to science and faith is an invaluable apologetic tool that will help you explore and analyze the relevant facts research and theories in light of biblical truth

The Comprehensive Guide to Science and Faith 2021-10-05

the power of mapping principles for visualizing knowledge illustrated by many stunning large scale full color maps maps of physical spaces locate us in the world and help us navigate unfamiliar routes maps of topical spaces help us visualize the extent and structure of our collective knowledge they reveal bursts of activity pathways of ideas and borders that beg to be crossed this book from the author of atlas of science describes the power of topical maps

providing readers with principles for visualizing knowledge and offering as examples forty large scale and more than 100 small scale full color maps today data literacy is becoming as important as language literacy well designed visualizations can rescue us from a sea of data helping us to make sense of information connect ideas and make better decisions in real time in atlas of knowledge leading visualization expert katy börner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis drawing on fifteen years of teaching and tool development she introduces a theoretical framework meant to guide readers through user and task analysis data preparation analysis and visualization visualization deployment and the interpretation of science maps to exemplify the framework the atlas features striking and enlightening new maps from the popular places spaces mapping science exhibit that range from key events in the development of the video tape recorder to mobile landscapes location data from cell phones for urban analysis to literary empires mapping temporal and spatial settings of victorian poetry to seeing standards a visualization of the metadata universe she also discusses the possible effect of science maps on the practice of science

International Conference on Present Day Biology A Bastion for Social and Sustainable Development 2015-03-20

in this book nigeria the most populous country in africa and a region in the lowest income group per capita is used to demonstrate the potential for healthcare reorganization and collaboration with the introduction of successful technologies centered around available bio compatible and sustainable natural resources our book discusses three of the top killers of children under 5 years of age in nigeria pneumonia 20 diarrheal diseases 15 and traumatic injuries 4 these conditions are used as examples to demonstrate the potential for improved pediatric outcomes with treatments engineered from sustainable and natural resources furthermore this book outlines possible action items that can help drive economic growth educational opportunities collaborative outreach and workforce productivity to build a healthy and sustainable community medical technology in the industrialized world has seen rapid advancements leading to increased survival and greater patient outcomes however the development and implementation of these resources is not always applicable to regions in need

of new and more basic ways to provide treatment moore s law a paradigm that considers advancement synonymous with increased digitization and optimization of electronic processes defines the history of technology however the functionality of advanced and smart technology is essentially useless in underdeveloped areas these regions lack some of the basic requirements for innovative medical technologies to impact human health such as electricity access to spare parts computer analysis tools and network architecture in addition the poor physical infrastructure insufficient management and lack of technical culture are barriers for entry and sustainability of these technologies rather than importing medical devices from industrialized countries we propose that the mindset and research focus for under developed areas must be on successful technologies simply put these areas need technology that gets the job done

Atlas of Knowledge 2018-01-03

the routledge handbook of environmental journalism provides a thorough understanding of environmental journalism around the world an increasing number of media platforms from newspapers and television to internet social media networks are the major providers of indispensable information about the natural world and environmental risk despite the dramatic changes in the news industry that have tended to reduce the number of full time newspaper reporters environmental journalists remain key to bringing stories to light across the globe with contributions from around the world broken down into five key regions the united states of america europe and russia asia and australia africa and the middle east and south america this book provides support for today s environment reporters the providers of essential news in the 21st century as a scholarly and journalistic work written by academics and the environmental reporters themselves this volume is an essential text for students and scholars of environmental communication journalism and global environmental issues more generally as well as professionals working in this vital area

Bio-Based Materials as Applicable, Accessible, and Affordable Healthcare Solutions 2020-05-14

the essential guide by one of america s leading doctors to how digital technology enables all of us to take charge of our health a trip to the doctor is almost a guarantee of misery you ll make an appointment months in advance you ll probably wait for several hours until you hear the doctor will see you now but only for fifteen minutes then you ll wait even longer for lab tests the results of which you ll likely never see unless they indicate further and more invasive tests most of which will probably prove unnecessary much like physicals themselves and your bill will be astronomical in the patient will see you now eric topol one of the nation s top physicians shows why medicine does not have to be that way instead you could use your smartphone to get rapid test results from one drop of blood monitor your vital signs both day and night and use an artificially intelligent algorithm to receive a diagnosis without having to see a doctor all at a small fraction of the cost imposed by our modern healthcare system the change is powered by what topol calls medicine s gutenber moment much as the printing press took learning out of the hands of a priestly class the mobile internet is doing the same for medicine giving us unprecedented control over our healthcare with smartphones in hand we are no longer beholden to an impersonal and paternalistic system in which doctor knows best medicine has been digitized topol argues now it will be democratized computers will replace physicians for many diagnostic tasks citizen science will give rise to citizen medicine and enormous data sets will give us new means to attack conditions that have long been incurable massive open online medicine where diagnostics are done by facebook like comparisons of medical profiles will enable real time real world research on massive populations there s no doubt the path forward will be complicated the medical establishment will resist these changes and digitized medicine inevitably raises serious issues surrounding privacy nevertheless the result better cheaper and more human health care will be worth it provocative and engrossing the patient will see you now is essential reading for anyone who thinks they deserve better health care that is for all of us

Routledge Handbook of Environmental Journalism 2016-10-25

the current obesity epidemic has been at the top of the national and increasingly global public agenda for the last decade the subject of extensive and intensive concern scrutiny and corrective efforts from various quarters in the united states much of this attention is predicated on the official discourse or story of obesity that it is a matter of personal responsibility specifically to the end of monitoring and ensuring appropriate caloric balance however even though it continues to have cultural presumption that discourse does not resonate with the populace which may explain why efforts of redress have been notoriously ineffective in this book helene shugart places obesity in cultural political and economic context arguing that current anxieties regarding obesity reflect the contemporary crisis in neoliberalism and that the failure of the official discourse of obesity mirrors the failure of neoliberalism more broadly specifically to account for authenticity a powerfully resonant cultural concept today she chronicles a number of competing discourses of obesity that have arisen in response to the failed official discourse examining and evaluating each in relation to the idea of authenticity assessing the practical and behavioral implications of each discourse for both obesity incidence and redress and establishing the significance of each discourse for negotiating neoliberalism in crisis more broadly

The Patient Will See You Now 2016

unpacking critical race theory crt and exploring why it has become a focus in politics across the us and the uk white lies uses crt to expose the systemic racism that shapes education it charts the coordinated campaigns involving think tanks mainstream media and politicians that have tried to silence antiracism in the wake of george floyd s murder and black lives matter each chapter is devoted to exposing a key white lie by examining the evidence that shows how the interests of white people continue to occupy centre stage and block movement towards a more equitable education for all gillborn establishes how the public debates shaped by misinformation and white lies sustain race inequity and portray antiracism as a threat to freedom and justice key controversies are dissected and debunked including the extensive and coordinated anti crt campaigns in the us and the uk the use of racial gaslighting to undermine

claims to social justice how multiple forms of intimidation are used to silence antiracist teaching and protest the inaccurate portrayal of the white working class as race victims and how cruelty in policy aims to unify whites and demonize minorities by avoiding unnecessary jargon to make complex debates accessible to a wide audience this book is ideal reading for anyone studying crt or interested in the topic of contemporary educational equality

Heavy 2024-06-03

wild life documents a nuanced understanding of the wild versus captive divide in species conservation it also documents the emerging understanding that all forms of wild nature both in situ on site and ex situ in captivity may need to be managed in perpetuity providing a unique window into the high stakes world of nature conservation irus braverman describes the heroic efforts by conservationists to save wild life yet in the shadows of such dedication and persistence in saving the life of species wild life also finds sacrifice and death such life and death stories outline the modern struggle to define what conservation should look like at a time when the long established definitions of nature have collapsed wild life begins with the plight of a tiny endangered snail and ends with the rehabilitation of an entire island interwoven between its pages are stories about golden lion tamarins in brazil black footed ferrets in the american plains sumatran rhinos in indonesia tasmanian devils in australia and many more creatures both human and nonhuman braverman draws on interviews with more than one hundred and twenty conservation biologists zoologists zoo professionals government officials and wildlife managers to explore the various perspectives on in situ and ex situ conservation and the blurring of the lines between them

White Lies: Racism, Education and Critical Race Theory ***2015-04-22***

we live in an age of awesome technological potential from nanotechnology to synthetic organisms new technologies stand to revolutionize whole domains of human experience but with awesome potential comes awesome risk drones can deliver a bomb as readily as they can a new

smartphone makers and hackers can 3d print guns as well as tools and supercomputers can short circuit wall street just as easily as they can manage your portfolio one thing these technologies can't do is answer the profound moral issues they raise who should be held accountable when they go wrong what responsibility do we as creators and users have for the technologies we build in a dangerous master ethicist wendell wallach tackles such difficult questions with hard earned authority imploring both producers and consumers to face the moral ambiguities arising from our rapid technological growth there is no doubt that scientific research and innovation are a source of promise and productivity but as wallach argues technological development is at risk of becoming a juggernaut beyond human control examining the players institutions and values lobbying against meaningful regulation of everything from autonomous robots to designer drugs a dangerous master proposes solutions for regaining control of our technological destiny wallach's nuanced study offers both stark warnings and hope navigating both the fears and hype surrounding technological innovations an engaging masterful analysis of the elements we must manage in our quest to survive as a species a dangerous master forces us to confront the practical and moral purposes of our creations

Wild Life 2015-06-02

a detailed exploration of the variety of threats that endangered species are facing around the world whether they are due to human impact or so called natural causes endangered species is a more complex issue and problem than it may seem on the surface what species are endangered and what is causing them to become vulnerable to population decline how can essential industries such as farming housing development and manufacturing continue to thrive without harming flora and fauna that are protected are current efforts adequate or should more be done to protect endangered species and who should be responsible for the substantial costs of working to save endangered species endangered species a reference handbook begins with an introduction that addresses major threats and extinctions in history discusses the geographical and cultural contexts in which these incidents happened highlights other key moments along the endangered species timeline and clearly shows why the topic of endangered species matters the following sections examine an unbiased synthesis of classic and contemporary studies that inform the issue of endangered species and outline the most controversial events related to endangered

species and the actions that have been taken to address them the book also presents perspective essays by scholars activists and other experts to provide diverse informed opinions on the issue of endangered species and includes a data and documents chapter that applies research findings to provide answers to questions like what species are most likely to become endangered in the future and which practices have historically been the most effective at protecting vulnerable species

A Dangerous Master 2018-01-18

this fully updated edition of the engaged sociologist by kathleen odell korgen carries the public sociology movement into the classroom while at the same time providing an engaging overview of the entire field it demonstrates how to think sociologically to develop a sociological eye and to use sociological tools to become effective participants in a democratic society perfect as a supplement for an introductory course or as a main text for any course that has public sociology at its roots this inspiring book will serve as a guidebook to any student who is passionate about applying sociological concepts to the world around them

Endangered Species 2014-09-23

this book is a comprehensive guide to proprioceptive rehabilitation after orthopaedic and sports surgery in addition it equips readers with a thorough understanding of the neurophysiology and assessment of proprioception and clearly explains the relationships between surgical procedures injuries and anatomy and proprioception proprioception is still an unclear topic for most clinicians and scientists and this is the first book specifically on proprioception in the context of orthopaedics and sports injuries surgery and rehabilitation after an opening section describing key basic knowledge individual chapters discuss proprioception after injuries and surgery to different parts of the body and explain the role of proprioceptive training in optimal rehabilitation among other topics addressed are proprioception after soft tissue regenerative treatment and the relation between osteoarthritis and proprioception the book includes numerous descriptions of exercises

photographs and tables documenting rehabilitation strategies it will be of value for all students clinicians and academicians with an interest in the subject

The Engaged Sociologist 2018-04-03

this book explores the unanticipated benefits that may arise after wars and conflicts showing how the preservation of battlefields and the establishment of borderlands can create natural capital in the former landscapes of war the editors call this collateral value in contrast to the collateral damage that war inflicts upon infrastructure natural capital and human capital the book includes case studies recounting successes and failures opportunities and risks and ambitious proposals the book is organized in two sections the first visits u s english and french battlefield sites dating from medieval england to world war i the second explores borderlands located on several continents established to end or prevent conflict both of these can create value beyond their original purpose by preserving natural areas and restoring biodiversity among the topics covered are registering english battlefields old forts and new amenities in the southern plains of the u s verdun france and the conservation of wwi cultural and natural heritage conservation lessons learned in the cordillera del condor corridor of the andes mountains korea s dmz and its nature preserve wakhan national park a mountainous buffer area between afghanistan and pakistan the book examines state of the art applications of landscape ecology including methods for change detection connectivity analysis and the quantification of ecosystem services also included is a chapter on a creative proposal for guantánamo 2 0 which would transform the gitmo detention facility into a peace park and ecological research center a concluding chapter appraises the past present and future of collateral values collateral values the natural capital created by landscapes of war benefits a broad audience of advanced undergraduate and graduate students researchers and practicing professionals

Proprioception in Orthopaedics, Sports Medicine and

Rehabilitation 2019-07-30

this anthology is a two volume work that focuses on our relationship with the earth and our future examining the crossover between psychology and environmental studies in the emerging fields of ecopsychology and environmental psychology this set offers the first comprehensive and holistic understanding of how our human activities are very rapidly changing the earth s environment and harming its inhabitants since our present path of population growth and use of finite global resources is unsustainable we must find new ways to protect our environment and our future offering unique perspectives and guidance toward holistic new solutions this reader friendly anthology serves a vast audience in the fields of psychology and environmental studies as well as scientists humanitarians educators and policymakers this work presents readers with the latest research on psychology and the environment gives examples from around the world applies to programs for youth and adults and appeals to all stakeholders including those in public health policy environmental studies and more the reader will gain the perspective and understanding of policies needed to effect environmental change and holistically manage the direction of that change

Collateral Values 2015-09-09

named one of the best books of 2015 by the economist a provocative exploration of the new ecology and why most of what we think we know about alien species is wrong for a long time veteran environmental journalist fred pearce thought in stark terms about invasive species they were the evil interlopers spoiling pristine natural ecosystems most conservationists and environmentalists share this view but what if the traditional view of ecology is wrong what if true environmentalists should be applauding the invaders in the new wild pearce goes on a journey across six continents to rediscover what conservation in the twenty first century should be about pearce explores ecosystems from remote pacific islands to the united kingdom from san francisco bay to the great lakes as he digs into questionable estimates of the cost of invader species and reveals the outdated intellectual sources of our ideas about the balance of nature pearce acknowledges that there are horror stories about alien species disrupting ecosystems but most of the time the tens of thousands of introduced species usually

swiftly die out or settle down and become model eco citizens the case for keeping out alien species he finds looks increasingly flawed as pearce argues mainstream environmentalists are right that we need a rewilding of the earth but they are wrong if they imagine that we can achieve that by reengineering ecosystems humans have changed the planet too much and nature never goes backward but a growing group of scientists is taking a fresh look at how species interact in the wild according to these new ecologists we should applaud the dynamism of alien species and the novel ecosystems they create in an era of climate change and widespread ecological damage it is absolutely crucial that we find ways to help nature regenerate embracing the new ecology pearce shows us is our best chance to be an environmentalist in the twenty first century means celebrating nature s wildness and capacity for change

Ecopsychology 2016-04-05

as human activity makes a greater impact on the environment sustainability becomes an increasingly imperative goal with the assistance of current technological innovations environmental systems can be better preserved oceanographic and marine cross domain data management for sustainable development is a pivotal resource for the latest research on the collection of environmental data for sustainability initiatives and the associate challenges with this data acquisition highlighting various technological scientific semantic and semiotic perspectives this book is ideally designed for researchers technology developers practitioners students and professionals in the field of environmental science and technology

The New Wild 2016-09-23

isn t it ironic that information about healthy living is in such abundance yet people are more confused than ever in excess of 80 of today s healthcare costs are spent treating chronic diseases like diabetes hypertension high cholesterol heart disease cancer and obesity this is a function of our modern society characterized by overnutrition under activity circadian rhythm disruption and a hectic and stressful lifestyle or ouch unlike any we ve seen before in ouch the pain of modern civilization authors dr ajay issar and alka issar offer a four factor model of chronic disease that not only links these behaviours with their physical consequences

but explains in detail the means of assailing them here is a practical personalized approach aimed at health promotion and shared compellingly by way of case studies recipes and advice for exercise and creating structure in your day this book clarifies common myths about chronic disease and extends tools readers can employ in their own war against ouch ouch the pain of modern civilization is unique for its consideration of the person as a whole and its prescription of timeless and proven solutions for optimal health this book is for anyone who cares about their well being including individuals who are already suffering from a chronic disease and those who are keen to avoid them

Oceanographic and Marine Cross-Domain Data Management for Sustainable Development 2020-04-17

africa and especially sub saharan africa has during the past decade witnessed one of the fastest growing markets in mobile communication this growth is recognized to have played a pivotal role in africa s socio economic development it has had a huge impact on residential living patterns on business networks and models and on government services and income sources the mobile industry has contributed more to economic growth than in any other comparable region globally introducing innovative broadly used applications technical topics discussed in the book include mobile development in sub saharan africa telecom liberalization in africa role of mobile in socio economic development mobile applications in specific sectors security in african mobile role of prepaid in africa

OUCH! The Pain of Modern Civilization 2022-09-01

psi is the term used by researchers for a variety of demonstrable but elusive psychic phenomena this collection of essays provides a detailed survey of the evidence for psi at the level of scientific examination key features of apparent psi phenomena are reviewed including precognition and remote perception knowledge of future or distant events that cannot be inferred from present information presentiment physiological responses to stimuli that have not yet occurred the effects of human emotions on globally dispersed machines the possible

impact of local sidereal time on psi performance and the familiar feeling of knowing who is calling on the phone special attention is given to those phenomena that make it difficult for scientists to get a clear understanding of psi the body of psi research while complex and frustrating is shown to contain sufficiently compelling positive evidence to convince the rational open minded observer that psi is real and that one or more physical processes probably underlie observed psi phenomena

The African Mobile Story 2014-11-19

modern medicine is changing drastically as new technologies emerge to transform the way in which patients are diagnosed treated and monitored in particular veterinary medicine is experiencing a tremendous shift as digital innovations are integrated into veterinary practice veterinary science breakthroughs in research and practice contains a compendium of the latest academic material on breakthroughs and recent progress in veterinary science including innovative studies on laboratory information management systems animal welfare and veterinary reform this publication is an ideal source for professionals practitioners graduate students and researchers interested in veterinary science

Evidence for Psi 2018-05-04

when it comes to parkinson s disease one of the most important issues revolves around early detection and accurate diagnosis the intricacies of this neurodegenerative disorder often elude timely identification leaving patients and healthcare providers grappling with its progressive symptoms ethical concerns surrounding the use of machine learning to aid in diagnosis further complicate this challenge this issue is particularly significant for research scholars phd fellows post doc fellows and medical and biomedical scholars seeking to unravel the mysteries of parkinson s disease and develop more effective treatments intelligent technologies and parkinson s disease prediction and diagnosis serves as a beacon of hope in the quest to revolutionize parkinson s disease diagnosis and treatment it unveils the remarkable potential of artificial intelligence ai and machine learning ml in remodeling the way we approach this debilitating condition with a comprehensive exploration of ai s capacity

to analyze speech patterns brain imaging data and gait patterns this book offers a powerful solution to the challenges of early detection and accurate diagnosis

Veterinary Science: Breakthroughs in Research and Practice 2024-02-08

skilled scientists are not immune to the appeal of terrorist groups indeed recent studies indicate that engineers and medical doctors are over represented within terrorist organizations also of particular concern with regard to the potential radicalization of scientists is the issue of the lone wolf an individual who prepares and commits violence alone outside of any command structure and without material assistance from any group this book presents papers from the nato advanced research workshop arw entitled the risk of skilled scientist radicalization and emerging biological warfare threats held in como italy from 29 november to 2 december 2016 the aim of this arw was to assess the risks surrounding the ability of radical terrorist groups to recruit highly skilled scientists the arw was unique in that it brought together acknowledged experts from the social science community and the scientific technical community to discuss their perspectives on the risk of radicalization of chemical biological radiological and nuclear cbrn skilled scientists countering terrorist organizations requires a comprehensive approach characterized by international cooperation across the military intelligence policy making and scientific communities the book provides an overview of the situation as well as recommendations for how such cooperation can be achieved and will be of interest to all those involved in the counter terrorism process

Intelligent Technologies and Parkinson's Disease: Prediction and Diagnosis 2017-10-03

this long anticipated reference and sourcebook for california s remarkable ecological abundance provides an integrated assessment of each major ecosystem type its distribution structure function and management a comprehensive synthesis of our knowledge about this biologically diverse state ecosystems of california covers the state from oceans to

mountaintops using multiple lenses past and present flora and fauna aquatic and terrestrial natural and managed each chapter evaluates natural processes for a specific ecosystem describes drivers of change and discusses how that ecosystem may be altered in the future this book also explores the drivers of california s ecological patterns and the history of the state s various ecosystems outlining how the challenges of climate change and invasive species and opportunities for regulation and stewardship could potentially affect the state s ecosystems the text explicitly incorporates both human impacts and conservation and restoration efforts and shows how ecosystems support human well being edited by two esteemed ecosystem ecologists and with overviews by leading experts on each ecosystem this definitive work will be indispensable for natural resource management and conservation professionals as well as for undergraduate or graduate students of california s environment and curious naturalists

The Risk of Skilled Scientist Radicalization and Emerging Biological Warfare Threats 2013

this volume investigates secret diplomacy with the aim of understanding its role in shaping foreign policy recent events including covert intelligence gathering operations accusations of spying and the leaking of sensitive government documents have demonstrated that secrecy endures as a crucial yet overlooked aspect of international diplomacy the book brings together different research programmes and views on secret diplomacy and integrates them into a coherent analytical framework thereby filling an important gap in the literature the aim is to stimulate generate and direct the further development of theoretical understandings of secret diplomacy by highlighting gaps in existing bodies of knowledge to this end the volume is structured around three distinct themes concepts contexts and cases the first section elaborates on the different meanings and manifestations of the concept the second part examines basic contexts that underpin the practice of secret diplomacy while the third section presents a series of empirical cases of particular relevance for contemporary diplomatic practice while the fundamental conditions diplomacy seeks to overcome alienation estrangement and separation are imbued with distrust and secrecy this volume highlights that if anything secret diplomacy is a vital if misunderstood and unfairly criticised aspect of diplomacy this

book will be of much interest to students of diplomacy intelligence studies foreign policy and ir in general

The Wisconsin Environmental Education Board ... Grant Recipients 2016-01-19

internet of things in biomedical engineering presents the most current research in internet of things iot applications for clinical patient monitoring and treatment the book takes a systems level approach for both human factors and the technical aspects of networking databases and privacy sections delve into the latest advances and cutting edge technologies starting with an overview of the internet of things and biomedical engineering as well as a focus on daily life contributors from various experts then discuss computer assisted anthropology cloudfall and image guided surgery as well as bio informatics and data mining this comprehensive coverage of the industry and technology is a perfect resource for students and researchers interested in the topic presents recent advances in iot for biomedical engineering covering biometrics bioinformatics artificial intelligence computer vision and various network applications discusses big data and data mining in healthcare and other iot based biomedical data analysis includes discussions on a variety of iot applications and medical information systems includes case studies and applications as well as examples on how to automate data analysis with perl r in iot

Ecosystems of California 2016-04-14

drawing on more than 30 case studies from around the world this book offers a multitude of examples for improving the governance of small scale fisheries contributors from some 36 countries argue that reform transformation and innovation are vital to achieving sustainable small scale fisheries especially for mitigating the threats and vulnerabilities of global change for this to happen governing systems must be context specific and the governability of small scale fisheries properly assessed the volume corresponds well with the voluntary guidelines for securing sustainable small scale fisheries adopted in 2014 spearheaded by the

united nations food and agriculture organization fao these affirm the importance of small scale fisheries for food security nutrition livelihoods rural development and poverty reduction the book arises from the project too big to ignore global partnership for small scale fisheries research tbt1 a nuanced diverse vibrant and local specific collection of essays just as the small scale fisheries around the world dealt with by this versatile array of authors following on the heels of the recently adopted fao small scale fisheries guidelines here is an erudite compendium which i heartily recommend to policy makers academics and activists who wish to come to terms with the complex issue of governance of this important field of human activity john kurien founding member of the international collective in support of fishworkers icsf and former professor centre for development studies trivandrum india likely to become a classic in its field this book is about small scale fisheries and interactive governance governance which is negotiated deliberated upon and communicated among stakeholders who often share governing responsibilities the authors show that interactive governance is not just a normative theory but a phenomenon that can be studied empirically here with 34 case studies from as many countries around the world north and south east and west such force of example enables the editors to put together well developed arguments and sometimes surprising conclusions about the way ahead a must read for managers practitioners stakeholders and students fikret berkes university of manitoba canada and author of coasts for people

Secret Diplomacy 2014

focusing on three forms of biological threat bioterrorism biocrime and biohacking the author examines the history of biowarfare and terrorism groups drawn to biological aggression are discussed along with the array of viruses bacteria and toxins they might use in their attacks the phenomenon of biocrime biological aggression targeting individuals for personal rather than ideological reasons is explored along with the growing trend of biohacking part ii presents case studies of bioterrorism and biocrime from the united states and japan

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essentials of health economics second edition examines the public health care system through the lens of economic theory through the use of numerous examples and profiles related to the field students will learn the importance health economics and its relevance to more general analysis of health policy issues this text is ideal for courses in programs of public health health administration and allied health professions as it conveys the essence of the economic issues at hand while avoiding complicated methodological issues that would interest only students of economics written with the non specialist in mind the book focuses on how to do descriptive explanatory and evaluative economics in a systematic way the second edition features highly accessible content ideal for students with a modest quantitative background real world examples throughout giving the student hands on experience in actual policy related issues as economic concepts are introduced comprehensive coverage of the specifics of the health care markets the evaluation of health care services delivered and health care reform updated statistics and references throughout new chapters on noncompetitive market models and market failures international health system issues and reform and national and state health care reforms instructor resources instructor s manual powerpoint lecture slides test bank

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