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Navigating Through Changing Times Beyond Self Positioning and Navigation in Complex Environments Decision Making in Complex Environments High-Performance Computing on Complex Environments International Project Management Understanding Organizations in Complex, Emergent and Uncertain Environments Projects and Complexity Intelligence Collection Multiteam Systems New Approaches for Security, Privacy and Trust in Complex Environments Knowledge-Based Decision Making in Complex Environments: Methodological Aspects of Proactive Airport Security Management Maintaining Information Dominance in Complex Environments Multiscale Dynamics Simulations: Nano and Nano-bio Systems in Complex Environments Maintaining Information Dominance in Complex Environments Research Progress on Environmental, Health, and Safety Aspects of Engineered Nanomaterials Team Situational Awareness Training in Virtual Environments The Cognitive Psychology of Knowledge Using Robots in Hazardous Environments Biomedical Micro- and Nano-Robots in Disease Treatment Environmental Social Work The Design of Alliance Governance Systems Neurorobotics explores machine learning Manual of Environmental Microbiology Organizational Structure in American Police Agencies Humid Tropical Environments Perception of the Visual Environment Information Retrieval and Mining in Distributed Environments Characterization of Nanomaterials in Complex Environmental and Biological Media Motion Control for Intelligent Automation Issues in Bioengineering and Bioinformatics: 2013 Edition Learning in Organizations Physiology of Elasmobranch Fishes: Structure and Interaction with Environment Crisis and Emergency Management in the Arctic Speciation and Patterns of Diversity Agent-Based Modeling of Environmental Conflict and Cooperation Handbook of Developmental Cognitive Neuroscience, second edition Methods for Decision Making in an Uncertain Environment Trading Environments Building in Hot and Humid Regions

Navigating Through Changing Times

2017-10-04

complexity theory including the concepts of chaos and emergence has been considered one of the most revolutionary products of the 20th century having influence on science technology and economics among others any complex systems such as organisms societies stock market or the internet have emergent properties that cannot be reduced to the mere properties of their parts the theory has been used in organizational studies and strategic management where it offers an alternative way to look at organizations the theory rejects the idea of organizations seen as machines and a planned approach to organizational change instead the theory underlines understanding on how organizations adapt to their environments complexity theory suggests that organizations tend to self organize themselves to a state where they regulate themselves complexity theory would advocate for approaches that focus on flatter more flexible organizations it shifts focus from management control to self organization and individual interrelations between different people the aim of navigating through changing times knowledge work in complex environment is to give insights on how complexity has changed the environment of many business organizations the book aims at identifying and discussing special features of business organizations performing knowledge work in a knowledge oriented economy navigating through changing times knowledge work in complex environment will be vital reading for those scholar and researchers in the fields of knowledge and wisdom management as well as organizational behavior and communication hrm strategy culture change and development and other related disciplines

Beyond Self

2017-10-20

the limitations of satellites create a large gap in assistive directional technologies especially indoors the methods and advances in alternate directional technologies is allowing for new systems to fill the gaps caused by the limitations of gps systems positioning and navigation in complex environments is a critical scholarly resource that examines the methodologies and advances in technologies that allow for indoor navigation featuring insight on a broad scope of topics such as multipath mitigation global navigation satellite system gnss and multi sensor integration this book is directed toward data scientists engineers government agencies researchers and graduate level students

Positioning and Navigation in Complex Environments

2018-01-05

many complex systems in civil and military operations are highly automated with the intention of supporting human performance in difficult cognitive tasks involving information processing the complex systems can involve teams or individuals working on real time tasks where a number of constraints must be satisfied decision making in complex environments addresses the role of the human the technology and the processes in complex socio technical and technological systems

Decision Making in Complex Environments

2007

with recent changes in multicore and general purpose computing on graphics processing units the way parallel computers are used and programmed has drastically changed it is important to provide a comprehensive study on how to use such machines written by specialists of the domain the book provides recent research results in high performance computing on complex environments information on how to efficiently exploit heterogeneous and hierarchical architectures and distributed systems detailed studies on the impact of applying heterogeneous computing practices to real problems and applications varying from remote sensing to tomography the content spans topics such as numerical analysis for heterogeneous and multicore systems optimization of communication for high performance heterogeneous and hierarchical

platforms efficient exploitation of heterogeneous architectures hybrid cpu gpu and distributed systems energy awareness in high performance computing and applications of heterogeneous high performance computing covers cutting edge research in hpc on complex environments following an international collaboration of members of the complexhpc explains how to efficiently exploit heterogeneous and hierarchical architectures and distributed systems twenty three chapters and over 100 illustrations cover domains such as numerical analysis communication and storage applications gpus and accelerators and energy efficiency

High-Performance Computing on Complex Environments

2014-04-10

the theory practice and example projects of international project management a singaporean corporation builds a manufacturing facility in cambodia with a chinese partner a cambodian government agency and value chain organizations in germany morocco vietnam and brazil a russian charity operates in the balkans and the persian gulf pharmaceuticals and food come from ten different countries physicians are from the eu and russia and donations are from central asia and the subcontinent a transnational organization markets through divisions in eighty two countries the products are designed in italy sweden and france with customization done in each respective country international projects involve a complex network of cultures politics laws languages and resources that goes beyond the traditional training and experience of most project managers international project management examines the different dimensions and responsibilities of international projects and outlines what a project manager must know to lead global projects successfully it also provides guidelines and examples for the international project management processes this book explores the professional best practices of international projects emphasizing the importance of leadership skills and virtual teamwork to successfully navigate an international project along with discussions on the process groups such as initiating planning execution monitoring and controlling and closing out this reference is organized according to these knowledge areas introduction to international project management integration management hr management diversity communications scope management cost and progress management risk management time management customer satisfaction quality procurement management cpe in the future integrating the pmbok guide fourth edition and the icb international project management provides international project managers whether experienced or beginners with the high cross cultural intelligence creative communication skills ability to establish and maintain dependable project management processes and compelling curiosity to manage international projects successfully pmbok is a registered mark of the project management institute inc

International Project Management

2011-11-29

explores the concept of complexity and analyses how organizational governance can contribute to environmental sustainability a common theme in these chapters is that organizations actively engage with their environments consequently organizational responses are partly the result of iterative processes with the environment

Understanding Organizations in Complex, Emergent and Uncertain Environments

2012-06-07

helpful to those tasked with managing complex environments projects and complexity introduces a new way of looking at projects and fostering the culture needed to achieve sustainable results it brings together experts from the academic military and business worlds to explore project management in the context of complexity theory and organizations these experts explore a systemic and organic approach to projects that widens the scope of a project manager s role as well as the tools and capabilities required the book provides readers with an understanding of the roots of project management in complexity theory and the human sciences it explores seven principles of complexity theory and applies them to project management examining project needs and features in terms of success parameters team and stakeholders perspectives the project manager s perspective and the perspectives of theory and practice explores a new humanistic paradigm in thinking about projects and project management illustrates the culture and philosophy of projects from a range of perspectives outlines an interdisciplinary approach to project management that integrates scientific and humanistic disciplines the contributors examine cutting edge organizational models from management research and military leadership and map them to project

management they integrate insights from various disciplines to introduce tools that are relatively unknown to project managers and leaders the book describes a paradigm that is complementary to traditional project management and also provides you with the philosophical general management and complexity theory findings needed to lead successful projects in complex environments

Projects and Complexity

2012-05-09

this book examines the theoretical and conceptual foundation of effective modern intelligence collection the strategies required to support intelligence analysis of the modern complex operational environments of today s military conflicts or competitive civilian situations such as business just as the old rules of conventional warfare and intelligence analysis do not apply fully in the 21st century environment neither does the traditional methodology of collecting intelligence on these elusive adapting foes operating as complex adaptive systems cas adversaries that excel in today s complex contexts intelligence collection how to plan and execute intelligence collection in complex environments proposes substantive improvements in the way the u s national security system collects intelligence and supports intelligence analysis the work draws on the groundbreaking work of a diverse group of theorists ranging from carl von clausewitz and sun tzu to m mitchell waldrop general david petraeus and orson scott card communicating a unifying theory and ontology of thought for how america s intelligence collection professionals must learn to collect data as our country faces elusive determined and smart adversaries in nonlinear dynamic environments the new ideas presented will help the nation s intelligence collection specialists to amass a formidable cumulative intelligence power regardless of the level of war or the type of operational environment

Intelligence Collection

2012-06-06

this book examines an emerging organizational form called the multi team system mts this type of aggregation is being increasingly adopted by organizations and agencies that need to respond to complex strategic problems there has been increasing interest in mtss over the last decade to the point where there is now a need to a describe these organizational forms more fully b build conceptual frames that can guide research and c begin developing tools to improve the study of mtss the purpose of this book is to respond to these needs the book contains a series of chapters that expand prior conceptual frames of mtss defining in more detail the compositional and linkage attributes that characterize such units the book also explores how such systems emerge and develop as well as the methods for studying mtss the intent of the book is to establish and nurture a strong conceptual and methodological foundation that can guide research and practice with mtss because the notion of mtss cuts across multiple domains this book will interest scholars in industrial organizational psychology organizational science management and organizational theory human factors sociology organization communications and public administration

Multiteam Systems

2012-05-22

the current it environment deals with novel complex approaches such as information privacy trust digital forensics management and human aspects this volume includes papers offering research contributions that focus both on access control in complex environments as well as other aspects of computer security and privacy

New Approaches for Security, Privacy and Trust in Complex Environments

2007-11-10

there are many risks to the u s army s command and control c2 operations and to its intelligence and information warfare iw capabilities the challenges include significant

uncertainty sudden unexpected events high noise and clutter levels in intelligence pictures basic and complex deceptions exercised through a variety of channels the actions of hidden malign actors and novel forms of attack on u s and allied command control communications computers information intelligence surveillance targeting acquisition and reconnaissance c4istar systems if the u s army is to secure and maintain information dominance in all environments it must exploit complexity and uncertainty in the battlespace and not simply seek to overcome it innovation requires that new ideas are considered and that old ideas should be robustly challenged to achieve and maintain information dominance the u s army will also require a significant injection of innovation a robust and resilient c2 and intelligence capability novel technologies and an accelerated information operations capability development program that is broad deep sustained and well coordinated furthermore once information dominance is achieved maintaining it will demand continuous change and development

Knowledge-Based Decision Making in Complex Environments: Methodological Aspects of Proactive Airport Security Management

2015

focusing on key methodological breakthroughs in the field this book provides newcomers with a comprehensive menu of multiscale modelling options

Maintaining Information Dominance in Complex Environments

2018-10-03

there are many risks to the u s army s command and control c2 operations and to its intelligence and information warfare iw capabilities the challenges include significant uncertainty sudden unexpected events high noise and clutter levels in intelligence pictures basic and complex deceptions exercised through a variety of channels the actions of hidden malign actors and novel forms of attack on u s and allied command control communications computers information intelligence surveillance targeting acquisition and reconnaissance c4istar systems if the u s army is to secure and maintain information dominance in all environments it must exploit complexity and uncertainty in the battlespace and not simply seek to overcome it innovation requires that new ideas are considered and that old ideas should be robustly challenged to achieve and maintain information dominance the u s army will also require a significant injection of innovation a robust and resilient c2 and intelligence capability novel technologies and an accelerated information operations capability development program that is broad deep sustained and well coordinated furthermore once information dominance is achieved maintaining it will demand continuous change and development

Multiscale Dynamics Simulations: Nano and Nano-bio Systems in Complex Environments

2021-10-01

despite the increase in funding for research and the rising numbers of peer reviewed publications over the past decade that address the environmental health and safety aspects of engineered nanomaterials enms uncertainty about the implications of potential exposures of consumers workers and ecosystems to these materials persists consumers and workers want to know which of these materials they are exposed to and whether the materials can harm them industry is concerned about being able to predict with sufficient certainty whether products that it makes and markets will pose any environmental health or safety issues and what measures should be taken regarding manufacturing practices and worldwide distribution to minimize any potential risk however there remains a disconnect between the research that is being carried out and its relevance to and use by decision makers and regulators to make informed public health and environmental policy and regulatory decisions research progress on environmental health and safety aspects of nanomaterials evaluates research progress and updates research priorities and resource estimates on the basis of results of studies and emerging trends in the nanotechnology industry this report follows up the 2012 report a research strategy for environmental health and safety aspects of engineered nanomaterials which presented a strategic approach for developing the science and research infrastructure needed to address uncertainties regarding the potential environmental health and safety risks posed by enms this new report looks at the state of nanotechnology research examines market and regulatory conditions and their affect on research priorities and considers the criteria for evaluating research progress on the environmental health and safety aspects of nanotechnology

Maintaining Information Dominance in Complex Environments

2018

the present book is a result of a seven year 1986 1992 national research program in cognitive science in germany presumably the first large scale cognitive science program there anchored in psychology and therefore christened wissenpsychologie psychology of knowledge it has found interdisciplinary resonance especially in artificial intelligence and education the research program brought together cognitive scientists from over twenty german universities and more than thirty single projects were funded the program was initiated by heinz mandl and hans spada the main goals of which were to investigate the acquisition of knowledge the access to knowledge and the modification and application of knowledge from a psychological perspective emphasis was placed on formalisms of knowledge representation and on the processes involved in many of the projects this was combined with computer simulations a final but equally important goal was the development of experimental paradigms and methods for data analysis that are especially suited to investigate knowledge based processes the research program has had a major impact on cognitive psychology in germany research groups were established at many universities and research equipment was provided it also inspired a considerable number of young scientists to carry out cognitive research employ modeling techniques from artificial intelligence for psychological theorizing and construct intelligent tutoring systems for education close contacts with cognitive scientists in the u s have helped to firmly integrate the program with international research endeavours each year one or two workshops were held the present volume is the result of the final workshop which was held in september 1992 selected results from seventeen projects are presented in this book the volume is enriched by three guest scholars who agreed to participate in the final workshop and to comment on the chapters of the book

Research Progress on Environmental, Health, and Safety Aspects of Engineered Nanomaterials

2013-12-09

there have been major recent advances in robotic systems that can replace humans in undertaking hazardous activities in demanding or dangerous environments published in association with the clawar climbing and walking robots and associated technologies association clawar org this important book reviews the development of robotic systems for de mining and other risky activities such as fire fighting part one provides an overview of the use of robots for humanitarian de mining work part two discusses the development of sensors for mine detection whilst part three reviews developments in both teleoperated and autonomous robots building on the latter part four concentrates on robot autonomous navigation the final part of the book reviews research on multi agent systems mas and the multi robotics systems mrs promising tools that take into account modular design of mobile robots and the use of several robots in multi task missions with its distinguished editors and international team of contributors using robots in hazardous environments landmine detection de mining and other applications is a standard reference for all those researching the use of robots in hazardous environments as well as government and other agencies wishing to use robots for dangerous tasks such as landmine detection and disposal reviews the development of robotic systems for de mining and other risky activities discusses the development and applications of sensors for mine detection using different robotic systems examines research on multi agent systems and multi robotics systems

Team Situational Awareness Training in Virtual Environments

1997

comprehensive resource covering fundamentals at the micro and nano scales technical advances in micro and nanorobots and their biomedical applications biomedical micro and nanorobots in disease treatment design preparation and applications provides foundational knowledge on the subject in the fields of biomaterials nanotechnology and biomedicine discusses the applications of micro and nanorobots in the cardiovascular cancer ophthalmic orthopedic gastrointestinal and nervous system disease treatment and addresses their biosafety autonomous motion behavior and future development trends the two highly qualified authors comprehensively and systematically introduces the concept source definition classification autonomous movement behavior and functionality of the technology providing readers with new ideas technologies and methods for modern biomedical research while also expanding new disease diagnosis treatment principles and possible application modes to paint a complete picture of the potential of the technology sample topics covered in biomedical micro and nanorobots in disease treatment include substrate selection between metal inorganic organic

natural and hybrid materials as well as driving systems based on biological components external fields and chemical reactions in vivo tracking technologies including fluorescence imaging magnetic resonance imaging mri radionuclide and ultrasonic imaging and other imaging methods biosafety of micro and nanorobot substrate through material composition micro and nanoscale influence ultimate destiny and genotoxicity trending behavior mechanisms in magnetotactic phototactic and chemotaxis systems and motion control through speed and direction control modes study on therapeutic mechanism and application for various physiological diseases summarizing research progress in the preparation biosafety functionality and therapeutic effects of the technology biomedical micro and nanorobots in disease treatment is an important and timely resource for biochemists materials scientists medicinal chemists pharmaceutical chemists bioengineers biotechnologists and the greater biotechnological industry

The Cognitive Psychology of Knowledge

1993-10-01

social work has been late to engage with the environmental movement often working with an exclusively social understanding of environment much of the social work profession has overlooked the importance of environmental issues however recently the impact of and worldwide attention to climate change a string of natural disasters and increased understanding of issues around environmental justice has put the environment sustainability and well being in the spotlight divided into three parts this field defining work explores what environmental social work is and how it can be put into practice the first section focuses on theory discussing ecological and social justice as well as sustainability spirituality and human rights the second section comprises case studies of evolving environmental social work practice the case studies derive from a range of areas from urban gardens and community organizing to practice with those affected by climate change the final section relevant to students and lecturers looks at learning about environmental issues in social work environmental social work provides an integrated theoretical and practical overview of why and how social work might respond to environmental factors affecting the societies and people they work with at international national local and individual levels

Using Robots in Hazardous Environments

2010-12-20

strategic alliances have emerged as an important element of firms strategies following suit research on alliances has blossomed concentrating on the various forms alliances take the reasons of their existence and increasingly embracing questions of alliance management and governance tasks however most contributions which address the alliance governance problem are yet rather vague and selective in their conception of alliance governance structures as well as the factors which influence their suitability the aim of this book is to further advance our understanding of alliance governance and to provide recommendations on the problem of alliance governance design following the configurational approach sascha albers develops a comprehensive model of alliance governance systems he identifies relevant structural and instrumental design parameters and analyzes major contingency factors including member firms cultures and alliance experience number of alliance partners and trust which impact the design parameters suitability he finally deduces five configurations or ideal types of alliance governance systems which can be regarded as blueprints for the practitioner and as platform for further research for the alliance scholar potential readership includes scholars of strategic management and organization theory interested students in these areas as well as practitioners involved in formulating and implementing alliance strategies

Biomedical Micro- and Nano-Robots in Disease Treatment

2023-05-30

the single most comprehensive resource for environmental microbiology environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research the manual of environmental microbiology fourth edition provides comprehensive coverage of this critical and growing field thoroughly updated and revised the manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation this wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the

international community specifically this new edition of the manual contains completely new sections covering microbial risk assessment quality control and microbial source tracking incorporates a summary of the latest methodologies used to study microorganisms in various environments synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments the manual of environmental microbiology is an essential reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology

Environmental Social Work

2012-11-12

a new theory accounts for the characteristics of individual police departments

The Design of Alliance Governance Systems

2019-01-10

the humid tropics contain some of the world s richest most diverse most important and most threatened environments this book draws on recent work by geographers biologists ecologists geologists and climatologists to present a complete and integrated appraisal of the natural environment of all the humid tropical regions of the world the most complete textbook on this key subject fully illustrated throughout with photographs and diagrams informative case studies and examples considers the physical environment as a whole and stresses the link between the elements

Neurorobotics explores machine learning

2023-01-20

aimed at students taking a course on visual perception this textbook considers what it means for a man a monkey and a computer to perceive the world after an introduction and a discussion of methods the book deals with how the environment produces a physical effect how the resulting image is processed by the brain or by computer algorithms in order to produce a perception of something out there it also discusses color form motion distance and also the sensing of three dimensionality before dealing with visual perception and its role in awareness and consciousness the book concludes with discussions of perceptual development blindness and visual disorders visual perception is by its very nature an interdisciplinary subject that requires a basic understanding of a range of topics from diverse fields and this is a very readable guide to all students whether they come from a neuroscience psychology cognitive science robotics or philosophy background

Manual of Environmental Microbiology

2016-05-02

at dart 09 held in conjunction with the 2009 iee wic acm international conference on intelligence wi 2009 and intelligent agent technology iat 2009 in milan italy practitioners and researchers working on pervasive and intelligent access to web services and distributed information retrieval met to compare their work ad insights in such fascinating topics extended and revised versions of their papers together with selected and invited original contributions are collected in this book topics covered are those that emerged at dart 09 as the most intriguing and challenging i community oriented tools and techniques as infrastructure of the 2 0 ii agent technology applied to virtual world scenarios iii context aware information retrieval iv content based information retrieval and v industrial applications of information retrieval every chapter before discussing in depth the specific topic presents a comprehensive review of related work and state of the art in the hope of this volume to be of use in the years to come to both researchers and students

Organizational Structure in American Police Agencies

2003-01-09

characterization of nanomaterials in complex environmental and biological media covers the novel properties of nanomaterials and their applications to consumer products and industrial processes the book fills the growing gap in this challenging area bringing together disparate strands in chemistry physics biology and other relevant disciplines it provides an overview on nanotechnology nanomaterials nano eco toxicology and nanomaterial characterization focusing on the characterization of a range of nanomaterial physicochemical properties of relevance to environmental and toxicological studies and their available analytical techniques readers will find a multidisciplinary approach that provides highly skilled scientists engineers and technicians with the tools they need to understand and interpret complicated sets of data obtained through sophisticated analytical techniques addresses the requirements challenges and solutions for nanomaterial characterization in environmentally complex media focuses on technique limitations appropriate data collection data interpretation and analysis aids in understanding and comparing nanomaterial characterization data reported in the literature using different analytical tools includes case studies of characterization relevant complex media to enhance understanding

Humid Tropical Environments

1995-10-30

motion control is a rapidly evolving topic with a wide range of applications especially in robotics speed and position control of a mechanical system has always been one of the main problems in automatic control as the demand increases for advanced levels of accuracy and dynamics the study of motion control aims to combine theoretical approaches with the realization of mechanical systems characterized by high levels of performance the ifac workshop focused on the evolution of mechanical systems modelling control strategies intelligent instrumentation dedicated microprocessor devices and new fields of application

Perception of the Visual Environment

2001-11-16

issues in bioengineering and bioinformatics 2013 edition is a scholarlyeditions book that delivers timely authoritative and comprehensive information about lifetime data analysis the editors have built issues in bioengineering and bioinformatics 2013 edition on the vast information databases of scholarlynews you can expect the information about lifetime data analysis in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of issues in bioengineering and bioinformatics 2013 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarlyeditions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarlyeditions com

Information Retrieval and Mining in Distributed Environments

2010-10-08

in this fresh and innovative approach to the complexities and challenges of organizational learning diversities the authors show that in learning there are no generic solutions and instead propose several context specific resolutions

Characterization of Nanomaterials in Complex Environmental and Biological Media

2015-06-01

fish physiology physiology of elasmobranch fishes volume 34a is a useful reference for fish physiologists biologists ecologists and conservation biologists following an increase in research on elasmobranchs due to the plight of sharks in today's oceans this volume compares elasmobranchs to other groups of fish highlights areas of interest for future research and offers perspective on future problems covering measurements and lab and field based studies of large pelagic sharks this volume is a natural addition to the renowned fish physiology series provides needed comprehensive content on the physiology of elasmobranchs offers a systems approach between structure and interaction with the environment and internal physiology contains contributions by leading experts in their respective fields under the guidance of internationally recognized and highly respected editors highlights areas of interest for future research including perspective on future problems

Motion Control for Intelligent Automation

2014-06-28

this book sheds light on the management challenges of crisis and emergency response in an arctic environment it explores how the complexity of the operational environment impacts on the risk of operations and addresses a need for tailor made emergency response mechanisms through case studies of the arctic environment the book illustrates how factors such as nature geography demographics and infrastructure increase the complexity of crises in the arctic and present a significant danger to life and health the environment and values in challenging arctic waters the case studies lay a special focus on contextual factors including conflicting interests and different stakeholder groups as well as the institutional platforms influencing crisis response and emergency management they also explore the implications for the managerial roles the mode of operations and the structuring of the organizations responsible for the emergency response the necessity to facilitate cooperation across organizations and borders and a need for organizational flexibility in large scale operations are also emphasized written in an accessible style this book will make for a useful resource for undergraduate and postgraduate students of disaster and emergency management as well as for professionals involved in emergency services

Issues in Bioengineering and Bioinformatics: 2013 Edition

2013-05-01

bringing together the viewpoints of leading ecologists concerned with the processes that generate patterns of diversity and evolutionary biologists who focus on mechanisms of speciation this book opens up discussion in order to broaden understanding of how speciation affects patterns of biological diversity especially the uneven distribution of diversity across time space and taxa studied by macroecologists the contributors discuss questions such as are species equivalent units providing meaningful measures of diversity to what extent do mechanisms of speciation affect the functional nature and distribution of species diversity how can speciation rates be measured using molecular phylogenies or data from the fossil record what are the factors that explain variation in rates written for graduate students and academic researchers the book promotes a more complete understanding of the interaction between mechanisms and rates of speciation and these patterns in biological diversity

Learning in Organizations

2006

conflict is a major facet of many environmental challenges of our time however growing conflict complexity makes it more difficult to identify win win strategies for sustainable conflict resolution innovative methods are needed to help predict understand and resolve conflicts in cooperative ways agent based modeling of environmental conflict and cooperation examines computer modeling techniques as an important set of tools for assessing environmental and resource based conflicts and ultimately for finding pathways to conflict resolution and cooperation this book has two major goals first it argues that complexity science can be a unifying framework for professions

engaged in conflict studies and resolution including anthropology law management peace studies urban planning and geography second this book presents an innovative framework for approaching conflicts as complex adaptive systems by using many forms of environmental analysis including system dynamics modeling agent based modeling evolutionary game theory viability theory and network analysis known as viable values and investments from agent based interaction and learning in environmental systems this framework allows users to model advanced facets of conflicts including institution building coalition formation adaptive learning and the potential for future conflict and conflict resolution based on the long term viability of the actors strategies written for scholars students practitioners and policy makers alike this book offers readers an extensive introduction to environmental conflict research and resolution techniques as the result of decades of research the text presents a strong argument for conflict modeling and reviews the most popular and advanced techniques including system dynamics modeling agent based modeling and participatory modeling methods this indispensable guide uses netlogo a widely used and free modeling software package to implement the viable modeling approach in three case study applications around the world readers are invited to explore adapt modify and expand these models to conflicts they hope to better understand and resolve

Physiology of Elasmobranch Fishes: Structure and Interaction with Environment

2015-11-16

the second edition of an essential resource to the evolving field of developmental cognitive neuroscience completely revised with expanded emphasis on social neuroscience clinical disorders and imaging genomics the publication of the second edition of this handbook testifies to the rapid evolution of developmental cognitive neuroscience as a distinct field brain imaging and recording technologies along with well defined behavioral tasks the essential methodological tools of cognitive neuroscience are now being used to study development technological advances have yielded methods that can be safely used to study structure function relations and their development in children s brains these new techniques combined with more refined cognitive models account for the progress and heightened activity in developmental cognitive neuroscience research the handbook covers basic aspects of neural development sensory and sensorimotor systems language cognition emotion and the implications of lifelong neural plasticity for brain and behavioral development the second edition reflects the dramatic expansion of the field in the seven years since the publication of the first edition this new handbook has grown from forty one chapters to fifty four all original to this edition it places greater emphasis on affective and social neuroscience an offshoot of cognitive neuroscience that is now influencing the developmental literature the second edition also places a greater emphasis on clinical disorders primarily because such research is inherently translational in nature finally the book s new discussions of recent breakthroughs in imaging genomics include one entire chapter devoted to the subject the intersection of brain behavior and genetics represents an exciting new area of inquiry and the second edition of this essential reference work will be a valuable resource for researchers interested in the development of brain behavior relations in the context of both typical and atypical development

Crisis and Emergency Management in the Arctic

2020-09

this book contains a selection of the papers presented at the xvii sigef congress it presents fuzzy logic neural networks and other intelligent techniques applied to economic and business problems this book is very useful for researchers and graduate students aiming to introduce themselves to the field of quantitative techniques for overcoming uncertain environments the contributors are experienced scholars of different countries who offer real world applications of these mathematical techniques

Speciation and Patterns of Diversity

2009-01-22

this volume examines dynamic interactions between the calculative and speculative practices of commerce and the fruitfulness variability materiality liveliness and risks of nature it does so in diverse environments caught up in new trading relationships forged on and through frontiers for agriculture forestry mining and fishing historical resource frontiers are understood in terms of commercial knowledge systems organized as projects to transform landscapes and environments the book asks how were environments traded and with what environmental and landscape consequences how have environments been engineered standardized and transformed within past trading

systems what have been the successes and failures of economic knowledge in dealing with resource production in complex environments it considers cases from northern europe north and south america central africa and new zealand in the period between 1750 and 1990 and the contributors reflect on the effects of transnational commodity chains competing economic knowledge systems environmental ignorance and learning and resource exploitation in each case they identify tensions blind spots and environmental learning that plagued commercial projects on frontiers

Agent-Based Modeling of Environmental Conflict and Cooperation

2018-10-12

this book presents an in depth analysis covering climatic and weather conditions house and building development history construction methods and technologies and environmental conditions it provides relevant house and building information and highlights recent advances in hot and humid regions as well as developments in other regions that are relevant to hot and humid climates the countries in hot and humid regions which include the tropical countries the middle eastern countries around the mediterranean and many countries of central asia and africa are home to some of the most challenging conditions in the world in terms of house and building design and construction and in terms of maintaining indoor thermal comfort and air quality in an energy efficient way the book s respective chapters prepared by expert contributors cover essential concepts designs and construction methodologies for houses and commercial buildings as such the book offers a valuable resource for undergraduate and graduate students in architecture and engineering house and building designers and building sciences researchers building contractors manufacturers and distributors of building equipment and devices and government policymakers and legislators will also benefit from the information provided in this book

Handbook of Developmental Cognitive Neuroscience, second edition

2008-07-11

Methods for Decision Making in an Uncertain Environment

2012

Trading Environments

2015-12-07

Building in Hot and Humid Regions

2019-04-26

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