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Computational Phylogenetics On the Evolution of Media Pathways to the Origin and Evolution of Meanings in the Universe Visual Form 2001 Donny'S Unauthorized Technical Guide to Harley-Davidson, 1936 to Present Visualizing with CAD The Philosophy of Social Evolution The Last Pillars of Darwinian Evolution Falsified Modelling Evolution Self-Organization as a New Paradigm in Evolutionary Biology Environmental Modelling Fused Deposition Modeling Based 3D Printing Evolutionary Systems Biology Parallelism, Learning, Evolution Developing Scaffolds in Evolution, Culture, and Cognition Processes of Life Principles of Soilscape and Landscape Evolution Issues in Evolutionary Epistemology Cooperative Adaptations and Evolution in Plant-Microbe Systems The Practice of Enterprise Modeling Mutation, Randomness, and Evolution Models and Methods for Biological Evolution The Origin and Evolution of Cultures Understanding the Enrichment of Heavy Elements by the Chemodynamical Evolution Models of Dwarf Galaxies Ecological Networks in an Agricultural World The Origin and Early Evolution of Life Theoretical Sociology Models and Algorithms for Genome Evolution Proceedings of the Fifteenth International Conference on Management Science and Engineering Management Developmental Plasticity and Evolution Physics and Evolution of Supernova Remnants Treatise on Geomorphology Proceedings of the 4th World Congress on Integrated Computational Materials Engineering (ICME 2017) Software Languages (R)Evolution Crust-Mantle Thermal Structure and Tectonothermal Evolution of the Tibetan Plateau Arthropod Biology and Evolution Ocean Island Volcanoes: Genesis, Evolution and Impact Artificial Life and Evolutionary Computation Bioinformatics and Molecular Evolution

Computational Phylogenetics

2017-11-02

this book presents the foundations of phylogeny estimation and technical material enabling researchers to develop improved computational methods

On the Evolution of Media

2023-06-23

this book describes the lifecycle of media in the context of the media ecology presenting a general theoretical framework and a series of methodological procedures to support the construction of an eco evolutionary approach to media change focusing on a series of processes emergence competition dominance hybridization adaptation extinction this book goes beyond a chronological approach to propose a reticulated and multi layered conception of media evolution if media evolution is a network what are the relationships between media species like what happens when a new media emerges into the media ecology how do new media influence the old ones can media become extinct how do media adapt when the social and economic context changes how can media evolution be analysed what kinds of quantitative and qualitative techniques can be applied in media evolution research by presenting an innovative research approach and theoretical framework to media studies this book will be of keen interest to scholars and graduate students of new media media history and theory philosophy of technology mass communication and organisational studies

Pathways to the Origin and Evolution of Meanings in the Universe

2024-04-02

pathways to the origin and evolution of meanings in the universe the book explains why meaning is a part of the universe populated by life and how organisms generate meanings and then use them for creative transformation of the environment and themselves this book focuses on interdisciplinary research at the intersection of biology semiotics philosophy ethology information theory and the theory of evolution such a broad approach provides a rich context for the study of organisms and other semiotic agents in their environments this methodology can be applied to robotics and artificial intelligence for developing robust adaptable learning devices in this book leading interdisciplinary scholars reveal their vision on how to integrate natural sciences with semiotics a theory of meaning making and signification developments in biology indicate that the capacity to create and understand signs is not limited to humans or vertebrate animals but exists in all living organisms the fact that inspired the integration of biology and semiotics into biosemiotics the authors discuss the nature of semiotic agents organisms and other autonomous goal directed units meaning signs information memory evolution and consciousness also discussed are issues including the origin of life potential meaning and its actualization top down causality in physics and biology capacity of organisms to encode their functions the strategy of organisms to combine homeostasis with direct adaptation to new life cycle phases or new environments multi level memory systems increase of freedom via enabling constraints creative modeling in evolution and learning communication in animals and humans the origin and function of language and the distribution and transfer of life in space this is the first book on biosemiotics in its global conceptual and spatial scope biosemiotics is presented using the language of natural sciences which supports the scientific grounding of semiotic terms finally the cosmic dimension of life and meaning making leads to a reconsideration of ethical principles and ecological mentality here on earth and in space exploration audience theoretical biologists ethologists astrobiologists ecologists evolutionary biologists philosophers phenomenologists semioticians biosemioticians molecular biologists linguists system scientists and engineers

Visual Form 2001

2003-06-29

this book constitutes the refereed proceedings of the 4th international workshop on visual form iwvf 4 held in capri italy in may 2001 the 66 revised full papers presented together with seven invited papers were carefully reviewed and selected from 117 submissions the book covers theoretical and applicative aspects of visual form processing the papers are organized in topical sections on representation analysis recognition modelling and retrieval and applications

Donny'S Unauthorized Technical Guide to Harley-Davidson, 1936 to Present

2014-07-01

do you want to make your harley davidson run faster author donny petersen with more than forty years of experience working on and designing harleys shows you how to make anything from mild to wild enhancements to your bike he progresses from inexpensive power increases to every level of increased torque and horsepower with graphics pictures and charts donnys unauthorized technical guide to harley davidson 1936 to present offers the real deal in performancing your harley davidson evolution and guides you on a sure footed journey to a thorough h d evolution performance understanding this volume examines the theory design and practical aspects of evolution performance provides insight into technical issues and explains what works and what doesnt in performancing the evolution he walks you through detailed procedures such as headwork turbo supercharging nitrous big inch harleys and completing simple hop up procedures like air breathers exhausts and ignition modifications in easy to understand terms donnys unauthorized technical guide to harley davidson 1936 to present shares performance secrets and provides clear guidance into what works what does not and whats just okay with performancing the harley evolution power train

Visualizing with CAD

2013-11-11

i spent the first twenty six years of my life in rome i used to go for ice cream to a popular place near the pantheon and i remember the excitement i felt beyond the chocolate and whipped cream when i entered this ancient roman temple after staring at the shower of light coming from the circular opening at the center of the dome as strong as a spotlight i remember being attracted almost hypnotically to the place below the opening i remember counting the coffers carving the concave dome composed in five rows of circular arrays and could feel the power and protection created by the concave space i also recall going every sunday to piazza san pietro this baroque square is well known for its colonnades which have an oval shape defined by two interlocking circles for each of these circles there is a mark located approximately at its center from which the four aligned rows of columns appear as one before entering the church almost as a part of a ritual i had to find the mark in the pavement of the oval square i was amazed by how the rows of columns could appear and disappear according to my position in relation to the mark

The Philosophy of Social Evolution

2017

from mitochondria to meerkats the natural world is full of spectacular examples of social behaviour in the early 1960s w d hamilton changed the way we think about how such behaviour evolves he introduced three key innovations now known as hamilton s rule kin selection and inclusive fitness and his pioneering work kick started a research programme now known as social evolution theory his work has been enormously influential but remains the

subject of fierce controversy this is a book about the philosophical foundations and future prospects of social evolution theory in part i foundations jonathan birch provides a careful exposition and defence of hamilton s ideas with a few modifications along the way in part ii extensions birch shows how these ideas can be applied to phenomena including cooperation in microorganisms cooperation among the cells of a multicellular organism and culturally evolved cooperation in the earliest human societies birch argues that real progress can be made in understanding microbial evolution evolutionary transitions and human evolution by viewing them through the lens of social evolution theory provided the theory is interpreted with care and adapted where necessary this book the first book length philosophical study of hamilton s ideas places social evolution theory on a firm philosophical footing and sets out exciting new directions for further work it is essential reading for philosophers of science evolutionary biologists and evolutionary social scientists from dust jacket

The Last Pillars of Darwinian Evolution Falsified

2022-05-12

documents the fact that the peer reviewed scientific evidence has falsified darwinian evolution challenges the common beliefs about the evidence for evolution by logic and research the first book titled the three major pillars of darwinism demolished has falsified abiogenesis the origin of life itself from non life mutations as the ultimate source of all genetic variety and natural selection which culls that variety to produce all life on earth this volume evaluated other major evidences for darwinian evolution which have also been refuted by empirical science these minor pillars are convergent evolution homology endosymbiosis and the antibiotic resistance claim for evolution it also shows the attempts to refute the irreducible complexity problem have failed and likewise co option cannot explain the evolution of complex features seen in the natural world in short an objective review of the published peer reviewed evidence in secular scientific journals has falsified darwinian evolution

Modelling Evolution

2018-07-06

evolution by natural selection explains the tree of life and the complex adaptations found throughout nature the power and versatility of evolutionary explanations have proved tempting to scientists outside of biology but adapting evolutionary concepts to new domains has been challenging even within biology there are many difficult questions and problem cases that face evolutionary theory modelling evolution offers a new general account of evolution by natural selection that identifies the essential features of evolutionary models that transcend any particular discipline evolution by natural selection in its broad sense is the systemic advantage of a type in contrast to the narrow definition using heritable variation in fitness this account is explained contextualised and applied to a variety of questions in both biology and the social sciences offering an accessible and comprehensive account of evolution that is applicable both to biology and the broader social sciences modelling evolution will appeal to students and researchers interested in fields such as biology economics sociology history and psychology

Self-Organization as a New Paradigm in Evolutionary Biology

2022-07-04

the epistemological synthesis of the various theories of evolution since the first formulation in 1802 with the transmission of the inherited characters by j b lamarck shows the need for an alternative synthesis to that of princeton 1947 this new synthesis integrates the scientific models of self organization developed during the second half of the 20th century based on the laws of physics thermodynamics and mathematics with the emergent evolutionary problematics such as self organized memory this book shows how self organization is integrated in modern evolutionary biology it is divided in two parts the first part pays attention to the modern observations in paleontology and biology which include major theoreticians of the self organization d arcy

thompson henri bergson rené thom ilya prigogine the second part presents different emergent evolutionary models including the sciences of complexity the non linear dynamical systems fractals attractors epigenesis systemics and mesology with different examples of the sciences of complexity and self organization as observed in the human lineage from both internal embryogenesis morphogenesis and external mesology viewpoints

Environmental Modelling

2013-04-01

simulation models are an established method used to investigate processes and solve practical problems in a wide variety of disciplines central to the concept of this second edition is the idea that environmental systems are complex open systems the authors present the diversity of approaches to dealing with environmental complexity and then encourage readers to make comparisons between these approaches and between different disciplines environmental modelling finding simplicity in complexity 2nd edition is divided into four main sections an overview of methods and approaches to modelling state of the art for modelling environmental processes tools used and models for management current and future developments the second edition evolves from the first by providing additional emphasis and material for those students wishing to specialize in environmental modelling this edition focuses on simplifying complex environmental systems reviews current software tools and techniques for modelling gives practical examples from a wide variety of disciplines e g climatology ecology hydrology geomorphology and engineering has an associated website containing colour images links to www resources and chapter support pages including data sets relating to case studies exercises and model animations this book is suitable for final year undergraduates and postgraduates in environmental modelling environmental science civil engineering and biology who will already be familiar with the subject and are moving on to specialize in the field it is also designed to appeal to professionals interested in the environmental sciences including environmental consultants government employees civil engineers geographers ecologists meteorologists and geochemists

Fused Deposition Modeling Based 3D Printing

2021-04-21

this book covers 3d printing activities by fused deposition modeling process the two introductory chapters discuss the principle types of machines and raw materials process parameters defects design variations and simulation methods six chapters are devoted to experimental work related to process improvement mechanical testing and characterization of the process followed by three chapters on post processing of 3d printed components and two chapters addressing sustainability concerns seven chapters discuss various applications including composites external medical devices drug delivery system orthotic inserts watertight components and 4d printing using fdm process finally six chapters are dedicated to the study on modeling and optimization of fdm process using computational models evolutionary algorithms machine learning metaheuristic approaches and optimization of layout and tool path

Evolutionary Systems Biology

2012-07-23

the book aims to introduce the reader to the emerging field of evolutionary systems biology which approaches classical systems biology questions within an evolutionary framework an evolutionary approach might allow understanding the significance of observed diversity uncover evolutionary design principles and extend predictions made in model organisms to others in addition evolutionary systems biology can generate new insights into the adaptive landscape by combining molecular systems biology models and evolutionary simulations this insight can enable the development of more detailed mechanistic evolutionary hypotheses

Parallelism, Learning, Evolution

1991-12-04

this volume presents the proceedings of a workshop on evolutionary models and strategies and another workshop on parallel processing logic organization and technology both held in germany in 1989 in the search for new concepts relevant for parallel and distributed processing the workshop on parallel processing included papers on aspects of space and time representations of systems non boolean logics metrics dynamics and structure and superposition and uncertainties the point was stressed that distributed representations of information may share features with quantum physics such as the superposition principle and the uncertainty relations much of the volume contains material on general parallel processing machines neural networks and system theoretic aspects the material on evolutionary strategies is included because these strategies will yield important and powerful applications for parallel processing machines and open the way to new problem classes to be treated by computers

Developing Scaffolds in Evolution, Culture, and Cognition

2014

empirical and philosophical perspectives on scaffolding that highlight the role of temporal and temporary resources in development across concepts of culture cognition and evolution scaffolding is a concept that is becoming widely used across disciplines this book investigates common threads in diverse applications of scaffolding including theoretical biology cognitive science social theory science and technology studies and human development despite its widespread use the concept of scaffolding is often given short shrift the contributors to this volume from a range of disciplines offer a more fully developed analysis of scaffolding that highlights the role of temporal and temporary resources in development broadly conceived across concepts of culture cognition and evolution the book emphasizes reproduction repeated assembly and entrenchment of heterogeneous relations parts and processes as a complement to neo darwinism in the developmentalist tradition of conceptualizing evolutionary change after describing an integration of theoretical perspectives that can accommodate different levels of analysis and connect various methodologies the book discusses multilevel organization differences and reciprocity between individuals and institutions as units of analysis and perspectives on development that span brains careers corporations and cultural cycles contributors colin allen linnda r caporael james evans elihu m gerson simona ginsburg james r griesemer christophe heintz eva jablonka sanjay joshi shu chen li pamela lyon sergio f martinez christopher j may johann peter murmann stuart a newman jeffrey c schank iddo tavory georg theiner barbara hoeberg wimsatt william c wimsatt

Processes of Life

2012-01-26

john dupré explores recent revolutionary developments in biology and considers their relevance for our understanding of human nature and human society epigenetics and related areas of molecular biology have eroded the exceptional status of the gene and presented the genome as fully interactive with the rest of the cell developmental systems theory provides a space for a vision of evolution that takes full account of the fundamental importance of developmental processes dupré shows the importance of microbiology for a proper understanding of the living world and reveals how it subverts such basic biological assumptions as the organisation of biological kinds on a branching tree of life and the simple traditional conception of the biological organism these topics are considered in the context of a view of science as realistically grounded in the natural order but at the same time as pluralistic and inextricably integrated within a social and normative context the volume includes a section that recapitulates and expands some of the author's general views on science a section addressing a range of topics in biology including the significance of genomics the nature of the organism and the current status of evolutionary theory and a section exploring some implications of contemporary biology for humans for example on the reality or unreality of human races and the plasticity of human nature

Principles of Soilscape and Landscape Evolution

2018-03

this book provides a holistic guide to the construction of numerical models to explain the co evolution of landforms soils vegetation and tectonics this volume demonstrates how physical processes interact to influence landform evolution and explains the science behind the physical processes as well as the mechanics of how to solve them

Issues in Evolutionary Epistemology

1989-11-01

this book provides the fullest philosophical examination of theories of evolutionary epistemology now available here for the first time are found major statements of new theories new applications and many new critical explorations the book is divided into four parts part i introduces several new approaches to evolutionary epistemology part ii attempts to widen the scope of evolutionary epistemology either by tackling more traditional epistemological issues or by applying evolutionary models to new areas of inquiry such as the evolution of culture or of intentionality part iii critically discusses specific problems in evolutionary epistemology and part iv deals with the relationship of evolutionary epistemology to the philosophy of mind because of its intellectual depth and its breadth of coverage issues in evolutionary epistemology will be an important text in the field for many years to come

Cooperative Adaptations and Evolution in Plant-Microbe Systems

2018-11-02

ecological and evolutionary genetics of plant microbe interactions is of high importance for developing the plant science since the plants originated symbiotically via incorporation of a phototrophic cyanobacterium into a heterotrophic eukaryon and further evolve as the multipartite symbiotic systems harboring the enormously diverse microbial communities the research topic has integrated the top level research on the genetic interactions in the plant microbial associations required to develop the novel evolutionary approaches in the molecular and ecological genetics of different kinds of symbioses

The Practice of Enterprise Modeling

2014-11-07

this volume constitutes the proceedings of the 7th ifip wg 8 1 conference on the practice of enterprise modeling held in november 2014 in manchester uk the focus of the poem conference series is on advances in the practice of enterprise modeling through a forum for sharing knowledge and experiences between the academic community and practitioners from industry and the public sector the 16 full and four short papers accepted were carefully reviewed and selected from 39 submissions they reflect different topics of enterprise modeling including business process modeling enterprise architecture investigation of enterprise modeling methods requirements engineering and specific aspects of enterprise modeling

Mutation, Randomness, and Evolution

2021

what does it mean to say that mutation is random how does mutation influence evolution are mutations merely the raw material for selection to shape adaptations the author draws on a detailed knowledge of mutational mechanisms to argue that the randomness doctrine is best understood not as a fact based conclusion but as the premise of a neo darwinian research program focused on selection the successes of this research program created a blind spot in mathematical models and verbal theories of causation that has stymied efforts to re think the role of variation however recent theoretical and empirical work shows that mutational biases can and do influence the course of evolution including adaptive evolution through a first come first served mechanism this thought provoking book cuts through the conceptual tangle at the intersection of mutation randomness and evolution offering a fresh far reaching and testable view of the role of variation as a dispositional evolutionary factor the arguments will be accessible to philosophers and historians with a serious interest in evolution as well as to researchers and advanced students of evolution focused on molecules microbes evo devo and population genetics

Models and Methods for Biological Evolution

2024-04-10

biological evolution is the phenomenon concerning how species are born are transformed or disappear over time its study relies on sophisticated methods that involve both mathematical modeling of the biological processes at play and the design of efficient algorithms to fit these models to genetic and morphological data models and methods for biological evolution outlines the main methods to study evolution and provides a broad overview illustrating the variety of formal approaches used notably including combinatorial optimization stochastic models and statistical inference techniques some of the most relevant applications of these methods are detailed concerning for example the study of migratory events of ancient human populations or the progression of epidemics this book should thus be of interest to applied mathematicians interested in central problems in biology and to biologists eager to get a deeper understanding of widely used techniques of evolutionary data analysis

The Origin and Evolution of Cultures

2005

the origin and evolution of cultures presents articles based on two notions that culture is crucial for understanding human behaviour and that culture is part of biology interest in this collection will span anthropology psychology economics philosophy and political science

Understanding the Enrichment of Heavy Elements by the Chemodynamical Evolution Models of Dwarf Galaxies

2019-04-30

this book addresses the mechanism of enrichment of heavy elements in galaxies a long standing problem in astronomy it mainly focuses on explaining the origin of heavy elements by performing state of the art high resolution hydrodynamic simulations of dwarf galaxies in this book the author successfully develops a model of galactic chemodynamical evolution by means of which the neutron star mergers can be used to explain the observed abundance pattern of the heavy elements synthesized by the rapid neutron capture process such as europium gold and uranium in the local group dwarf galaxies the book argues that heavy elements are significant indicators of the evolutionary history of the early galaxies and presents theoretical findings that open new avenues to understanding the formation and evolution of galaxies based on the abundance of heavy elements in metal poor stars

Ecological Networks in an Agricultural World

2013-11-22

the theme of this volume is to discuss the ecological networks in an agricultural world the volume covers important topics such networking agroecology construction and validation of food webs using logic based machine learning and text mining and eco evolutionary dynamics in agricultural networks updates and informs the reader on the latest research findings written by leading experts in the field highlights areas for future investigation

The Origin and Early Evolution of Life

2002

origin and early evolution of life draws on evidence from molecular genetics the structure and function of extant organisms and geology it covers the period from about 4 billion years ago when life is thought to have originated to about 600 million years ago when multicellular organisms first arose there are significant gaps in our understanding of the earliest evolution of life forms but an insight into the topic leads to a more profound understanding of life itself particular emphasis is placed on the fact that although life arose very soon after the origin of the earth it was represented only by simple microbial life forms for approximately 85 of this time increase in complexity beyond the microbial level took place only very late in the history of life

Theoretical Sociology

2013-07-11

what can sociological theory tell us about the basic forces that shape our world with clarity and authority theoretical sociology a concise introduction to twelve sociological theories by leading theorist jonathan h turner seeks to answer this question through a brief yet in depth examination of twelve major sociological theories readers are given an opportunity to explore the foundational premise of each theory and key elements that make it distinctive the book draws on biographical background analysis of important works historical influences and other critical insights to help readers make the important connections between these monumental sociological theories and the social world in which we live this concise resource is a perfect complement to any course that seeks to examine both classic and contemporary sociological theory

Models and Algorithms for Genome Evolution

2013-09-17

this authoritative text reference presents a review of the history current status and potential future directions of computational biology in molecular evolution gathering together the unique insights of an international selection of prestigious researchers this must read volume examines the latest developments in the field the challenges that remain and the new avenues emerging from the growing influx of sequence data these viewpoints build upon the pioneering work of david sankoff one of the founding fathers of computational biology and mark the 50th anniversary of his first scientific article the broad spectrum of rich contributions in this essential collection will appeal to all computer scientists mathematicians and biologists involved in comparative genomics phylogenetics and related areas

Proceedings of the Fifteenth International Conference on Management Science and Engineering Management

2021-07-30

this book gathers the proceedings of the fifteenth international conference on management science and engineering management icmse 2021 held on august 14 2021 at the university of castilla la mancha uclm toledo spain the proceedings contains theoretical and practical research of decision support systems complex systems empirical studies sustainable development project management and operation optimization showing advanced management concepts and demonstrates substantial interdisciplinary developments in mse methods and practical applications it allows researchers and practitioners in management science and engineering management mse to share their latest insights and contribution meanwhile it appeals to readers interested in these areas especially those looking for new ideas and research directions

Developmental Plasticity and Evolution

2003-03-13

the first comprehensive synthesis on development and evolution it applies to all aspects of development at all levels of organization and in all organisms taking advantage of modern findings on behavior genetics endocrinology molecular biology evolutionary theory and phylogenetics to show the connections between developmental mechanisms and evolutionary change this book solves key problems that have impeded a definitive synthesis in the past it uses new concepts and specific examples to show how to relate environmentally sensitive development to the genetic theory of adaptive evolution and to explain major patterns of change in this book development includes not only embryology and the ontogeny of morphology sometimes portrayed inadequately as governed by regulatory genes but also behavioral development and physiological adaptation where plasticity is mediated by genetically complex mechanisms like hormones and learning the book shows how the universal qualities of phenotypes modular organization and plasticity facilitate both integration and change here you will learn why it is wrong to describe organisms as genetically programmed why environmental induction is likely to be more important in evolution than random mutation and why it is crucial to consider both selection and developmental mechanism in explanations of adaptive evolution this book satisfies the need for a truly general book on development plasticity and evolution that applies to living organisms in all of their life stages and environments using an immense compendium of examples on many kinds of organisms from viruses and bacteria to higher plants and animals it shows how the phenotype is reorganized during evolution to produce novelties and how alternative phenotypes occupy a pivotal role as a phase of evolution that fosters diversification and speeds change the arguments of this book call for a new view of the major themes of evolutionary biology as shown in chapters on gradualism homology environmental induction speciation radiation macroevolution punctuation and the maintenance of sex no other treatment of development and evolution since darwin's offers such a comprehensive and critical discussion of the relevant issues developmental plasticity and evolution is designed for biologists interested in the development and evolution of behavior life history patterns ecology physiology morphology and speciation it will also appeal to evolutionary paleontologists anthropologists psychologists and teachers of general biology

Physics and Evolution of Supernova Remnants

2020-11-10

written by a leading expert this monograph presents recent developments on supernova remnants with the inclusion of results from various satellites and ground based instruments the book details the physics and evolution of supernova remnants as well as provides an up to date account of recent multiwavelength results supernova remnants provide vital clues about the actual supernova explosions from x ray spectroscopy of the supernova material or from the imprints the progenitors had on the ambient medium supernova remnants are interacting with all of which the author discusses in great

detail the way in which supernova remnants are classified is reviewed and explained early on a chapter is devoted to the related topic of pulsar wind nebulae and neutron stars associated with supernova remnants the book also includes an extended part on radiative processes collisionless shock physics and cosmic ray acceleration making this book applicable to a wide variety of astronomical sub disciplines with its coverage of fundamental physics and careful review of the state of the field the book serves as both textbook for advanced students and as reference for researchers in the field

Treatise on Geomorphology

2013-02-27

the changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline the number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically as more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult the fourteen volumes of this treatise on geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding earth s surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of earth s diverse surfaces this treatise on geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that educators and students researchers will find useful geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding editor in chief prof j f shroder of the university of nebraska at omaha is past president of the qg g section of the geological society of america and present trustee of the gsa foundation while being well respected in the geomorphology research community and having won numerous awards in the field a host of noted international geomorphologists have contributed state of the art chapters to the work readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the world expert volume editors and by the editor in chief himself no other reference work exists in the area of geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece from the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned

Proceedings of the 4th World Congress on Integrated Computational Materials Engineering (ICME 2017)

2017-04-27

this book represents a collection of papers presented at the 4th world congress on integrated computational materials engineering icme 2017 a specialty conference organized by the minerals metals materials society tms the contributions offer topics relevant to the global advancement of icme as an engineering discipline topics covered include the following icme success stories and applications verification validation uncertainty quantification issues and gap analysis integration framework and usage additive manufacturing phase field modeling microstructure evolution icme design tools and application mechanical performance using multi scale modeling

Software Languages

2018-05-17

this book identifies defines and illustrates the fundamental concepts and engineering techniques relevant to applications of software languages in software development it presents software languages primarily from a software engineering perspective i e it addresses how to parse analyze transform generate format and otherwise process software artifacts in different software languages as they appear in software development to this end it covers a wide range of software languages most notably programming languages domain specific languages modeling languages exchange formats and specifically also language definition languages further different languages are leveraged to illustrate software language engineering concepts and techniques the functional programming language haskell dominates the book while the mainstream programming languages python and java are additionally used for illustration by doing this the book collects and organizes scattered knowledge from software language engineering focusing on application areas such as software analysis software reverse engineering software transformation software re engineering software composition modularity and domain specific languages it is designed as a textbook for independent study as well as for bachelor s advanced level or master s university courses in computer science an additional website provides complementary material for example lecture slides and videos this book is a valuable resource for anyone wanting to understand the fundamental concepts and important engineering principles underlying software languages allowing them to acquire much of the operational intelligence needed for dealing with software languages in software development practice this is an important skill set for software engineers as languages are increasingly permeating software development

(R)Evolution

2005-07-06

r evolution studies the adaptation of industrial organisations to the dynamics of the environment by drawing an analogy with evolutionary biology by extensively studying literature in management science and by case studies these investigations have lead to the insight that companies might evolve slower than generally expected they doubt the effect of reorganizations as commonly practiced in industry additionally this work proposes the model for the innovation impact point the model for the dynamic adaptation capability the model for collaboration

Crust-Mantle Thermal Structure and Tectonothermal Evolution of the Tibetan Plateau

1996-12

this monograph deals with systematic studies of all relevant thermal aspects of the tibetan plateau including terrestrial heat flow measures distribution pattern of observed heat flow along a n s profile crust mantle thermal structure and north middle south triple heterogeneity across the whole plateau main emphasis has been put on the close correlation between thermal and comprehensive geophysical fields and the intrinsic genetic linkage between tectonic deformation of terranes and thereby induced deep seated and superficial thermal activities and responses this new approach in combination with available geoscientific research results has led to a synthetic idea of integrated tectonothermal evolution of the tibetan plateau

Arthropod Biology and Evolution

2013-04-11

more than two thirds of all living organisms described to date belong to the phylum arthropoda but their diversity as measured in terms of species number is also accompanied by an amazing disparity in terms of body form developmental processes and adaptations to every inhabitable place on earth

from the deepest marine abysses to the earth surface and the air the arthropoda also include one of the most fashionable and extensively studied of all model organisms the fruit fly whose name is not only linked forever to mendelian and population genetics but has more recently come back to centre stage as one of the most important and more extensively investigated models in developmental genetics this approach has completely changed our appreciation of some of the most characteristic traits of arthropods as are the origin and evolution of segments their regional and individual specialization and the origin and evolution of the appendages at approximately the same time as developmental genetics was eventually turning into the major agent in the birth of evolutionary developmental biology evo devo molecular phylogenetics was challenging the traditional views on arthropod phylogeny including the relationships among the four major groups insects crustaceans myriapods and chelicerates in the meantime palaeontology was revealing an amazing number of extinct forms that on the one side have contributed to a radical revisitation of arthropod phylogeny but on the other have provided evidence of a previously unexpected disparity of arthropod and arthropod like forms that often challenge a clear cut delimitation of the phylum

Ocean Island Volcanoes: Genesis, Evolution and Impact

2020-06-08

ocean island volcanoes constitute some of the most prominent and rapidly formed features on earth and yet they cannot be explained by conventional plate tectonics although typically associated with intraplate settings hotspots these volcanoes also occur in different geodynamic settings near mid ocean ridges the nature of ocean island magmatism is still the subject of intense debate within the geological community traditionally it has been linked to the presence of mantle plumes at depth e g hawaii although the interaction with plate tectonics is also recognized to play a significant role e g azores galápagos magma compositions may range from basaltic to more differentiated which consequently is accompanied by striking changes in the eruption style from effusive dominated to highly explosive volcanism understanding how these magmas evolve and how volcanic processes act at ocean island volcanoes are key issues of modern volcanology moreover the growth of ocean island volcanoes from their rise on the seafloor as seamounts to island emergence and subsequent formation of shield volcanoes and in some cases large caldera volcanoes is governed by multiple interrelated changes it is well known that competing processes model ocean island volcanoes during alternating and or coeval periods of construction and destruction the geological evolution of these volcanoes results from the balance among volcanism intrusions tectonics subsidence uplift mass wasting sedimentation and subaerial and wave erosion a better knowledge of the interplay between these processes is crucial to obtain a more comprehensive understanding of the evolution of such volcanoes and to the eventual formulation of a unified model for ocean island evolution ocean islands are especially vulnerable to volcanic eruptions and other geological hazards on account of their typical small size rough topography and isolation which make risk management and evacuation difficult volcanic eruptions in particular may have a significant impact on local populations infrastructures economy and even on the global climate it is therefore fundamental to monitor these volcanoes with complementary geophysical geodetic and geochemical techniques in order to forecast future eruptions and their impacts however the assessment of volcanic hazards on ocean islands is challenging due to the large variety of phenomena involved e g lava flows tephra fallout pyroclastic density currents lahars gas emissions different approaches are used to assess volcanic hazards either based on empirical methods or sophisticated numerical models focusing on a single phenomenon or the combination of different hazards this frontiers research topic aims to promote discussion within the scientific community representing an important step forward in our knowledge of ocean island volcanoes in order to serve as a reference for future research

Artificial Life and Evolutionary Computation

2020-07-10

this book constitutes the revised selected papers of the 14th italian workshop on artificial life and evolutionary computation wivace 2019 held in rende italy in september 2019 the 13 full papers and 4 short paper presented were thoroughly reviewed and selected from 31 submissions they are focused on the topics of information systems design and analysis of algorithms artificial intelligence machine learning cognitive science modeling and simulation collaborative and social computing parallel computing distributed computing chapters 14 15 16 and 17 are available open access under a creative

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Bioinformatics and Molecular Evolution

2013-04-30

in the current era of complete genome sequencing bioinformatics and molecular evolution provides an up to date and comprehensive introduction to bioinformatics in the context of evolutionary biology this accessible text provides a thorough examination of sequence analysis biological databases pattern recognition and applications to genomics microarrays and proteomics emphasizes the theoretical and statistical methods used in bioinformatics programs in a way that is accessible to biological science students places bioinformatics in the context of evolutionary biology including population genetics molecular evolution molecular phylogenetics and their applications features end of chapter problems and self tests to help students synthesize the materials and apply their understanding is accompanied by a dedicated website blackwellpublishing.com/higgs containing downloadable sequences links to web resources answers to self test questions and all artwork in downloadable format artwork also available to instructors on cd rom this important textbook will equip readers with a thorough understanding of the quantitative methods used in the analysis of molecular evolution and will be essential reading for advanced undergraduates graduates and researchers in molecular biology genetics genomics computational biology and bioinformatics courses

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