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Programming Languages -
Fernando Castor 2016-09-17
This book constitutes the proceedings of the 20th Brazilian Symposium on Programming Languages, SBLP 2016, held in Maringá, Brazil, in September 2016. The 12 papers presented in this volume were carefully reviewed and selected from 26 submissions. They deal with fundamental principles and innovations in the design and implementation of

programming languages and systems.

Gene function in schistosomes: recent advances towards a cure -

Arnon Dias Jurberg 2015-06-17
Schistosomes are human parasites distributed worldwide in tropical and sub-tropical latitudes, especially in developing countries and impoverished regions. These neglected tropical disease (NTD) pathogens causes debilitating illnesses, which

include hepatosplenomegaly, hepatic fibrosis, haemorrhagic necrotic ulcerations in the intestinal mucosa, urogenital tract diseases, in addition to cardiopulmonary, renal and neurologic lesions due to egg accumulation in the liver, intestines, uro-genital tissues and other sites. Urogenital schistosomiasis is a risk factor for bladder cancer and increases the risk of transmission of HIV infection. Despite extensive effort to control this NTD over the years, deployment on a considerable scale of commercially available drugs in endemic populations has induced the emergence of resistant isolates and raised the need to identify new targets for alternative therapies. Because of the availability of genomes of the three major species of human schistosomiasis, and through advances in functional genomics and live imaging, studies on schistosomes have now come into focus as models to investigate adaptations to parasitism and developmental

biology of trematodes and cestodes, and indeed flatworms and Lophotrochozoans, at large. This Research Topic aims at gathering state-of-art essays on schistosome genetics, genetics, pathobiology and immunobiology. It also aims to highlight advances in understanding of the host-parasite relationship, in paradigms that address this NTD, and to discuss new perspectives and advances in chemotherapy and immunoprophylaxis.

Inclusão no Ensino Superior -
Marcilene Magalhães da Silva
2017-12-18

Este livro é resultado de uma pesquisa de mestrado, desenvolvida no Departamento de Educação/Universidade Federal de Ouro Preto (UFOP), que teve como objetivo investigar o processo de inclusão de estudantes com deficiência no Ensino Superior, identificando, segundo percepção dos próprios alunos, efeitos da formação acadêmica recebida. Apresenta a análise da influência de aspectos

atitudinais, comunicacionais e físicos na formação desses estudantes na UFOP, verificando em que medida as ações institucionais podem ser consideradas promotoras de inclusão educacional, tendo como referencial teórico a Educação Especial Inclusiva. A obra se destina a todos aqueles que se preocupam com o estabelecimento de estratégias políticas e pedagógicas capazes de possibilitar a todos o direito à educação.

Novel Insights Into the Immune Mechanisms Associated With the Pathogenesis of Chagas Disease - Giovane R. Sousa
2022-06-16

Issues in Life Sciences: Bacteriology, Parasitology, and Virology: 2011 Edition -
2012-01-09

Issues in Life Sciences: Bacteriology, Parasitology, and Virology: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Life Sciences—Bacteriology,

Parasitology, and Virology. The editors have built Issues in Life Sciences: Bacteriology, Parasitology, and Virology: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Life Sciences—Bacteriology, Parasitology, and Virology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Life Sciences: Bacteriology, Parasitology, and Virology: 2011 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 <http://www.ScholarlyEditions.c>

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[Drug Carriers: Advances in Research and Application: 2011 Edition](#) - 2012-01-09
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Plant-Microbe-Insect Interactions in Ecosystem Management and Agricultural Praxis - Gero Benckiser
2019-04-03

Nature's high biomass productivity is based on biological N₂ fixation (BNF) and biodiversity (Benckiser, 1997; Benckiser and Schnell, 2007). Although N₂ makes up almost 80% of the atmosphere's volume living organisms need it in only small quantities, presumably due to

the paucity of natural ways of transforming this recalcitrant dinitrogen into reactive compounds. N shortage is commonly the most important limiting factor in crop production. The synthesis of ammonium from nitrogen and hydrogen, the Haber-Bosch (H-B) process, invented more than 100 years ago, became the holy grail of synthetic inorganic chemistry and removed the most ubiquitous limit on crop yields. H-B opened the way for the development and adoption of high-yielding cultivars, for monoculturing by organic and precision farming. With N over fertilization and pesticide application monoculturing farmers could approach Nature's high biomass productivity by causing side effects the scientific world is investigating. This eBook presents the complexity the scientific world is facing in understanding the soil-microbe-plant-animal cooperation, the millions of taxonomically, phylogenetically, and metabolically diverse above-

below-ground species, involved in shaping the ever-changing biogeochemical process patterns being of great significance for food production networks and yield stability. Because ecosystem management and agricultural praxis are still largely conducted in isolation, the aim of this Frontiers' eBook is to gather and interconnect plant-microbe-insect interaction research of various disciplines, studied with a broad spectrum of modern physical-chemical, biochemical, and molecular biological, agronomical techniques. The goal of this Research Topic was to gain a better understanding of microbe-plant-insect compositions, functioning, interactions, health, fitness, and productivity.

Insect Bioecology and Nutrition for Integrated Pest Management - Antônio Ricardo Panizzi 2012-03-08

The field of insect nutritional ecology has been defined by how insects deal with nutritional and non-nutritional compounds, and how these

compounds influence their biology in evolutionary time. In contrast, *Insect Bioecology and Nutrition for Integrated Pest Management* presents these entomological concepts within the framework of integrated pest management (IPM). It specifically addresses bioecology and insect nutrition in modern agriculture. Written for graduate students and professionals in entomology, this book covers neotropical information in three sections: General Aspects: Basic bioecology and insect nutrition; artificial diets; insect/plant interactions; insect symbionts; the interface of chemical ecology with the food; and insect cannibalism Specific Aspects: Specific feeding guilds of insects including ants, social bees, leaf chewers, seed suckers, seed chewers, root feeders, gall makers, detritivorous feeders, pests of storage grains, fruit flies, aphids, endo- and ectoparasitoids, predators, crisopids, and hematophagous insects Applied Aspects: Host plant resistance and the design

of IPM programs in the context of insect bioecology and nutrition. Much of the research on which these chapters were written was done in Brazil and based on its neotropical fauna. The complexity and diversity of the neotropics provides enough data that readers from all zoogeographical regions can readily translate the information in this book to their specific conditions. The book's value as an entry point for further research is enhanced by the inclusion of approximately 4,000 references.

Constraint-Handling in Evolutionary Optimization -

Efrén Mezura-Montes
2009-05-03

This book is the result of a special session on constraint-handling techniques used in evolutionary algorithms within the Congress on Evolutionary Computation (CEC) in 2007. It presents recent research in constraint-handling in evolutionary optimization.

Geotechnical Engineering in the XXI Century: Lessons learned and future challenges -

N.P. López-Acosta 2019-11-26
The first Pan-American Conference on Soil Mechanics and Geotechnical Engineering (PCSMGE) was held in Mexico in 1959. Every 4 years since then, PCSMGE has brought together the geotechnical engineering community from all over the world to discuss the problems, solutions and future challenges facing this engineering sector. Sixty years after the first conference, the 2019 edition returns to Mexico. This book, Geotechnical Engineering in the XXI Century: Lessons learned and future challenges, presents the proceedings of the XVI Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XVI PCSMGE), held in Cancun, Mexico, from 17 - 20 November 2019. Of the 393 full papers submitted, 335 were accepted for publication after peer review. They are included here organized into 19 technical sessions, and cover a wide range of themes related to geotechnical engineering in the 21st century. Topics covered

include: laboratory and in-situ testing; analytical and physical modeling in geotechnics; numerical modeling in geotechnics; unsaturated soils; soft soils; foundations and retaining structures; excavations and tunnels; offshore geotechnics; transportation in geotechnics; natural hazards; embankments and tailings dams; soils dynamics and earthquake engineering; ground improvement; sustainability and geo-environment; preservation of historic sites; forensics engineering; rock mechanics; education; and energy geotechnics. Providing a state-of-the-art overview of research into innovative and challenging applications in the field, the book will be of interest to all those working in soil mechanics and geotechnical engineering. In this proceedings, 58% of the contributions are in English, and 42% of the contributions are in Spanish or Portuguese.

True Bugs (Heteroptera) of the Neotropics - Antônio R. Panizzi 2015-09-29

True bugs (Heteroptera) are a diverse and complex group of plant-feeding and predatory insects important to food production, human health, the global economy and the environment. Within the nearly 43,000 species described around the world, Neotropical true bugs are particularly diverse, and much remains to be discovered about their biology and relations with other species. Inspired by the need for a comprehensive assessment, *True Bugs (Heteroptera) of the Neotropics* is the most complete and thorough review ever published. Experts in each of the seven infraorders have drawn together the scattered literature to provide detailed treatments of each major taxon. The most common and important species as well as select lesser known species in each major family are covered, highlighting morphology, classification, biology and ecology. The numerous color illustrations highlight key species and their adaptations, and importance to basic and

applied sciences is discussed. Each chapter is based on an up-to-date review of the literature, and with a bibliography of more than 3,000 references, readers are presented with an unprecedented and vital and timely account of the true bugs of the Neotropical Region.

Proceedings of the 8th International Congress on Environmental Geotechnics Volume 3 - Liangtong Zhan
2018-10-10

This book gathers selected papers presented at the 8th International Congress on Environmental Geotechnics (ICEG), held on October 28 - November 1, 2018 in Hangzhou, China. The theme of the congress is "Towards a Sustainable Geoenvironment", which means meeting the needs of the present generation without compromising the ability of future generations to meet their own needs. Under this theme, the congress covers a broad range of topics and provides an excellent opportunity for academics,

engineers, scientists, government officials, regulators, and planners to present, discuss and exchange notes on the latest advances and developments in the research and application of environmental geotechnics.

Accumulation & Innovation - Renelson Ribeiro Sampaio
2021-11-16

This work focuses on the experience of a Brazilian cassava starch agro-industry in developing its technological capabilities since 1917, when it was first established. Its main purpose is to explore how the process of technological progress which occurred along with that industrialization, especially regarding the starch industry, has been determined by the following variables: I) the pattern of capital accumulation, II) the capability of the related technical base to both the promotion or absorption of technological changes, and III) firms' strategies towards innovation.

Control of Visceral Leishmaniasis by Immunotherapeutic and

Prophylactic Strategies -

Nahid Ali 2015-06-28

Visceral leishmaniasis (VL) or kala-azar is the most dreadful of all forms of leishmaniasis caused by *Leishmania donovani* in Old World and *Leishmania chagasi* and/or *Leishmania infantum* in New World affecting millions of people worldwide. In active VL, macrophages host the replicating amastigotes in phagolysosomal compartments leading to splenomegaly, hepatomegaly, hyperglobulinemia, anemia, weight-loss, incessant fever and ultimately death if not treated. Treatments available against the disease are limited by increased incidence of resistance, serious side-effects, high cost and long course of treatment. Immuno-chemotherapy is an alternative to overcome the limitations of the drugs against VL. Combination of one or more of immunotherapeutic agents like BCG, Alum, IFN- γ , antigen-pulsed dendritic cells (DC), etc. with chemotherapeutic drugs have been tested raising hopes

for a suitable immuno-chemotherapy against VL and Post Kala-azar Dermal Leishmaniasis (PKDL). Antagonists of IL-10, TGF- β , IL-13 have been effectively used with pentavalent antimonials in treatment of experimental VL. Some parasitic antigens and liposomal formulations have also been shown to impart superior therapeutic effectiveness to antileishmanial drugs. For socio-economic reasons prophylaxis is always more desirable than therapy. Although no vaccine against any form of leishmaniasis in humans is available, patients successfully treated show considerable protection from reinfection highlighting the possibility of developing prophylactic measures against the disease. Subsequently a lot of interest has been focused recently towards developing vaccines against VL and many potential vaccine candidates like whole cell (attenuated or heat killed), crude fractions, purified subunits, DNAs, recombinant proteins, fusion

proteins, and genetically modified live attenuated parasites etc. have been reported. These vaccine candidates are either activators of CD4+Th1 cells and/or CD8+ T cells or neutralizers of immuno-suppression. Cationic liposomal formulations, nanoparticle and virosome delivery systems, etc. have been used to increase potency and durability of various vaccine candidates. Immuno-modulators like TLR agonists have been shown to be promising adjuvants in enhancing efficacy and overcoming the challenge of human administrable vaccine formulations. Recently role of sand fly salivary gland proteins as immune-modulators also has been explored. Various strategies such as heterologous prime boosting, targeted antigen delivery, adjuvant mediated protection, have been undertaken. Likewise, precise role of regulatory T cells (Tregs) in VL disease progression needs to be investigated and exploited to develop both immuno-

therapeutic and prophylactic methods. A breakthrough in immunotherapy and prophylactic strategy would help in eradication of the parasites from the pool of natural reservoirs namely VL and PKDL patients, asymptomatic carrier individuals and infected dogs ensuring success of global VL control programs.

Antibiotic Resistance in the Environment - Célia M. Manaia
2020-08-21

This book provides a multidisciplinary review of antibiotic resistance and unravels the complex and interrelated roles of environmental sources, including pharmaceutical industry effluents, hospital and domestic effluents, wildlife and drinking water. Antibiotic resistance is a global public health issue in which the interface between humans, animals and the environment is particularly relevant. The contrasts seen across different environmental compartments and world regions, which are due to climate, social and

policy differences, mean that this problem needs to be analyzed from a multi-geographic and multi-cultural angle. Bringing together contributions from researchers on different continents with expertise in antibiotic resistance in a range of different environmental compartments, the book offers a detailed reflection on the paths that make antibiotic resistance a global threat, and the state-of-the-art in antibiotic resistance surveillance and risk assessment in complex environmental matrices.

Selected Papers from the 5th International Electronic Conference on Sensors and Applications - Francisco Falcone 2020-12-29

This Special Issue comprises selected papers from the proceedings of the 5th International Electronic Conference on Sensors and Applications, held on 15-30 November 2018, on sciforum.net, an online platform for hosting scholarly e-conferences and discussion

groups. In this 5th edition of the electronic conference, contributors were invited to provide papers and presentations from the field of sensors and applications at large, resulting in a wide variety of excellent submissions and topic areas. Papers which attracted the most interest on the web or that provided a particularly innovative contribution were selected for publication in this collection. These peer-reviewed papers are published with the aim of rapid and wide dissemination of research results, developments, and applications. We hope this conference series will grow rapidly in the future and become recognized as a new way and venue by which to (electronically) present new developments related to the field of sensors and their applications.

Mass Spectrometry - Mahmood Aliofkhaezai 2017-06-07

Mass spectrometry is an analytical technique that can be used for the structural

characterization and quantification of a wide range of molecules. The technique is extensively used by chemists for the analysis of small and volatile organic compounds. Mass spectrometry has long been an important technique for the identification of materials ranging from pure compounds to complex mixtures. Mass spectrometry can be used to determine molecular weight of compounds or using different ionization conditions, can provide more structural details through the analysis of fragmentation patterns. This level of detail can be attained for pure compounds and some mixtures. Mass spectrometry can also be combined with separation techniques such as gas chromatography or liquid chromatography to allow more complex mixtures to be examined. These hyphenated techniques provide a range of options for the characterization of complex materials.

Language education and the university: fostering socially-just practices in undergraduate

contexts. Volume 1: language, culture and discourse - Daniel de Mello Ferraz

Organizadores: Daniel de Mello Ferraz, Ana Paula Martinez

Duboc We don't know what the future holds among so much polarization, hybrid wars, movements to disassemble public education, but the role of a teacher educator who is engaged and aware of its representation in the society cannot be denied and vanished.

On the contrary, a teacher educator in the complexity of his/her role will inevitably be reference of resistance: creating discursive and theoretical opportunities, legitimizing knowledge other than those which comes top down. Certainly, this book will trigger other similar projects and contribute meaningfully to critical teacher education (Fabrício Ono). ISBN:

978-65-5939-053-3 (brochura)

978-65-5939-054-0 (eBook)

DOI:

10.31560/pimentacultural/2020.540

Mathematical Modelling and Applications - Gloria Ann

Stillman 2017-11-05

This volume documents on-going research and theorising in the sub-field of mathematics education devoted to the teaching and learning of mathematical modelling and applications. Mathematical modelling provides a way of conceiving and resolving problems in the life world of people whether these range from the everyday individual numeracy level to sophisticated new problems for society at large. Mathematical modelling and real world applications are considered as having potential for multi-disciplinary work that involves knowledge from a variety of communities of practice such as those in different workplaces (e.g., those of educators, designers, construction engineers, museum curators) and in different fields of academic endeavour (e.g., history, archaeology, mathematics, economics). From an educational perspective, researching the development of competency in real world modelling involves research

situated in crossing the boundaries between being a student engaged in modelling or mathematical application to real word tasks in the classroom, being a teacher of mathematical modelling (in or outside the classroom or bridging both), and being a modeller of the world outside the classroom. This is the focus of many of the authors of the chapters in this book. All authors of this volume are members of the International Community of Teachers of Mathematical Modelling (ICTMA), the peak research body into researching the teaching and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace.

[Handbook of Cognitive Mathematics](#) - Marcel Danesi
2022-12-02

Cognitive mathematics provides insights into how mathematics works inside the brain and how it is interconnected with other faculties through so-called

blending and other associative processes. This handbook is the first large collection of various aspects of cognitive mathematics to be amassed into a single title, covering decades of connection between mathematics and other figurative processes as they manifest themselves in language, art, and even algorithms. It will be of use to anyone working in math cognition and education, with each section of the handbook edited by an international leader in that field.

Advances in Databases and Information Systems - Ladjel Bellatreche 2021-08-16

This book constitutes the proceedings of the 25th European Conference on Advances in Databases and Information Systems, ADBIS 2021, held in Tartu, Estonia, in August 2021. The 18 full papers presented together with 3 keynotes were carefully reviewed and selected from 70 submissions. The selected papers span a wide spectrum of topics in databases and related technologies, tackling

challenging problems and presenting inventive and efficient solutions. They are organized in 5 sessions: patterns and events, social media and text mining, indexes, queries and constraints, high-dimensional data and data streams, and data integration.

Organotins as a Complete Physiologic and Endocrine Disruptor: Role of Disease Development - Jones B. Graceli 2020-01-17

Handbook of Anthropometry - Victor R. Preedy 2012-02-02
Although its underlying concept is a relatively simple one—the measurement of the human body and its parts—anthropometry employs a myriad of methods and instruments, and is useful for a variety of purposes, from understanding the impact of disease on individuals to tracking changes in populations over time. The first interdisciplinary reference on the subject, the Handbook of Anthropometry brings this wide-ranging field together:

basic theory and highly specialized topics in normal and abnormal anthropometry in terms of health, disease prevention, and intervention. Over 140 self-contained chapters cover up-to-date indices, the latest studies on computerized methods, shape-capturing systems, and bioelectrical impedance, data concerning single tissues and whole-body variables, and reports from different areas of the world. Chapters feature helpful charts and illustrations, cross-references to related chapters are included, and key points are presented in bullet form for ease of comprehension. Together, the Handbook's thirteen sections entail all major aspects of anthropometrical practice and research, including: Tools and techniques. Developmental stages, from fetus to elder. Genetic diseases, metabolic diseases, and cancer. Exercise and nutrition. Ethnic, cultural, and geographic populations. Special conditions and circumstances. The Handbook of Anthropometry is an

invaluable addition to the reference libraries of a broad spectrum of health professionals, among them health scientists, physicians, physiologists, nutritionists, dieticians, nurses, public health researchers, epidemiologists, exercise physiologists, and physical therapists. It is also useful to college-level students and faculty in the health disciplines, as well as to policymakers and ergonomists. *Mathematical Modelling Programs in Latin America* - Milton Rosa 2022-08-07 This book is about the unique, sophisticated, and rigorous study of mathematics in Latin America developed over centuries of cultural exchange between Europe, North, and South America. More specifically, the book explores the tradition of mathematical modelling, introduced a century ago. This modelling was adapted to assist members of distinct communities to draw information about their own realities through the elaboration of representations,

which generate mathematical knowledge that deals with creativity and invention. The book provides empirical evidence that a category of mathematical modelling developed in Latin America assesses the horizontal and reciprocal relations between mathematics (school/non-school contexts) and the real world. These relations provide an epistemological and ontological change, where mathematical knowledge of the others is recognized on a horizontal plane. Further, they oblige mathematics teachers and students to understand as a community of knowledge that builds their own mathematical categories of their environment governed by the reciprocal relationships between academic knowledge and functional knowledge. The dimensions of the relationships make up a frame of reference that guides educational change in mathematics. The book presents an inquiry-based approach of three Latin American modelling programs: ethnomodelling, transversality

of knowledge, and reasoned decision-making. Each one, with its respective theoretical and methodological foundations related to ethnomathematics and mathematical modelling, socioepistemology, and the attribution of meaning to learning. Undoubtedly, the three mathematical modelling programs, independently, provide educational gains, each with its levels of specificity and loyal to its philosophical, theoretical, and methodological principles. However, the book places them together, organized by axes, to define a corpus of mathematical knowledge that envisions profound educational change through the development of different approaches of mathematical modelling. The authors of the 18 chapters in this book, who represent the diversity of Latin America, are from eight countries: Argentina, Brazil, Chile, Colombia, Costa Rica, Cuba, Ecuador, Honduras, and Mexico. They were invited to share their ideas, perspectives,

and discuss investigations that represent a rich sample of three Latin American perspectives on mathematical modelling.

Formal Methods: Foundations and Applications - Gustavo Carvalho 2020-11-19

This book constitutes the refereed proceedings of the 23rd Brazilian Symposium on Formal Methods, SBMF 2020, which was supposed to take place in Ouro Preto, Brazil, in November 2020. Instead the symposium took place virtually due to the COVID-19 pandemic. The 10 regular papers presented together with 3 invited talks in this book were carefully reviewed and selected from 17 submissions. The papers are organized in topical sections such as: experience reports; models, languages and semantics; and software product lines. Chapter 'Safety Assurance of a High Voltage Controller for an Industrial Robotic System' is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Wireless Technologies: Concepts, Methodologies, Tools and Applications - Management Association, Information Resources 2011-08-31

Contains the latest research, case studies, theories, and methodologies within the field of wireless technologies.

Directory of Geoscience Departments 2015 - Carolyn Wilson 2015-02-27

The Directory of Geoscience Departments 50th Edition is the most comprehensive directory and source of information about geosciences departments and researchers available. It is an invaluable resource for individuals working in the geosciences or must identify or work with specialists on the issues of Earth, Environmental, and related sciences and engineering fields. The Directory of Geoscience Departments 50th Edition provides a state/country-sorted listing of nearly 2300 geoscience departments, research departments, institutes, and their faculty and

staff. Information on contact information for departments and individuals is provided, as well as details on department enrollments, faculty specialties, and the date and source of faculty and staff's highest degree. New in the 50th edition: Listing of all US and Canadian geoscience theses and dissertations accepted in 2012 that have been reported to GeoRef Information Services, as well as a listing of faculty by their research specialty.

The Politics of Memory -

Andreza Aruska de Souza Santos 2019-11-20

Who decides which stories about a city are remembered? How do interpretations of the past shape a city's present and future? Using local, national and international perspectives on the meanings and uses of heritage cities, *The Politics of Memory: Urban Cultural Heritage in Brazil* explores how a site can turn into a mummification of the past, lifelessly displaying long-gone splendour, or a living, breathing treasure offering

dynamic cultural and educational opportunities. This book presents multiple and competing views, needs and desires amongst the different people who use a city, alongside notions of power, national identity, race and class in heritage settings. Discussing the case of UNESCO World Heritage town Ouro Preto in Brazil, Andreza Aruska de Souza Santos asks how and why democratic participation in heritage fails or succeeds, and how preserved historic cities interpret, resist, and consent to the functions and meanings that they have inherited and that they reinvent for themselves.

Nature-Inspired Computing Design, Development, and Applications - Nunes de Castro, Leandro 2012-05-31

The observation of nature has been the inspiration for many materials, laws, and theories, as well as computational methods. *Nature-Inspired computing Design, Development, and Applications* covers all the main areas of

natural computing, from methods to computationally synthesized natural phenomena, to computing paradigms based on natural materials. This volume is comprised of ideas and research from nature to develop computational systems or materials to perform computation. Researchers, academic educators, and professionals will find a comprehensive view of all aspects of natural computing with emphasis on its main branches.

Ethnomathematics in Action

- Milton Rosa 2020-08-10

This book presents a collection of ethnomathematical studies of diverse mathematical practices in Afro-Brazilian, indigenous, rural and urban communities in Brazil.

Ethnomathematics as a research program aims to investigate the interrelationships of local mathematical knowledge sources with broader universal forms of mathematics to understand ideas, procedures, and practices found in distinct

cultural groups. Based on this approach, the studies brought together in this volume show how this research program is applied and practiced in a culturally diverse country such as Brazil, where African, indigenous and European cultures have generated different forms of mathematical practice. These studies present ethnomathematics in action, as a tool to connect the study of mathematics with the students' real life experiences, foster critical thinking and develop a mathematics curriculum which incorporates contributions from different cultural groups to enrich mathematical knowledge. By doing so, this volume shows how ethnomathematics can contribute in practice to the development of a decolonial mathematics education. Ethnomathematics in Action: Mathematical Practices in Brazilian Indigenous, Urban and Afro Communities will be of interest to educators and educational researchers looking for innovative approaches to develop a more

inclusive, democratic, critical, multicultural and multiethnic mathematics education.

Nuts and Seeds in Health and Disease Prevention -

Victor R Preedy 2020-05-17

Nuts and Seeds in Health and Disease Prevention, Second Edition investigates the benefits of nuts and seeds in health and disease prevention using an organizational style that will provide easy-access to information that supports identifying treatment options and the development of symptom-specific functional foods. This book examines seeds and nuts as agents that affect metabolism and other health-related conditions and explores the impact of compositional differences between various seeds and nuts, including differences based on country of origin and processing technique. Finally, the book includes methods for the analysis of seed and nut-related compounds. Written for nutrition researchers, nutritionists, food scientists, government regulators of food, and students of agriculture,

oils and feeds, nutrition and life sciences, this book is sure to be a welcomed resource. Identifies options and opportunities for improving health through the consumption of nut and seed products Provides easy access to information that supports the identification of treatment options Contains insights into health benefits that will assist in development of symptom-specific functional foods Examines seeds and nuts as agents that affect metabolism and other health-related conditions Explores the impact of compositional differences between various seeds and nuts, including differences based on country of origin and processing technique Includes methods for analysis of seed and nut-related compound

International Conference on Advances in the Theory of Ironmaking and Steelmaking (ATIS 2009),

December 09-11,2009 -
Govind S. Gupta 2009

Contributed articles presented in the International Conference on Advances in the Theory of

Ironmaking and Steelmaking; organized by the Dept. of Material Engineering, IISc., Bangalore.

Mathematical Modelling in Education Research and Practice - Gloria Ann Stillman
2015-07-20

In this volume cultural, social and cognitive influences on the research and teaching of mathematical modelling are explored from a variety of theoretical and practical perspectives. The authors of the current volume are all members of the International Community of Teachers of Mathematical Modelling and Applications, the peak research body in this field. A distinctive feature of this volume is the high number of authors from South American countries. These authors bring quite a different perspective to modelling than has been showcased in previous books in this series, in particular from a cultural point of view. As well as recent international research, there is a strong emphasis on pedagogical issues including those

associated with technology and assessment, in the teaching and learning of modelling. Applications at various levels of education are exemplified. The contributions reflect common issues shared globally and represent emergent or on-going challenges.

Rock Mechanics for Natural Resources and

Infrastructure Development

- Full Papers - Sergio A.B. da Fontoura 2019-09-03

Rock Mechanics for Natural Resources and Infrastructure Development contains the proceedings of the 14th ISRM International Congress (ISRM 2019, Foz do Iguaçu, Brazil, 13-19 September 2019).

Starting in 1966 in Lisbon, Portugal, the International Society for Rock Mechanics and Rock Engineering (ISRM) holds its Congress every four years. At this 14th occasion, the Congress brings together researchers, professors, engineers and students around contemporary themes relevant to rock mechanics and rock engineering. Rock Mechanics for Natural Resources and

Infrastructure Development contains 7 Keynote Lectures and 449 papers in ten chapters, covering topics ranging from fundamental research in rock mechanics, laboratory and experimental field studies, and petroleum, mining and civil engineering applications. Also included are the prestigious ISRM Award Lectures, the Leopold Muller Award Lecture by professor Peter K. Kaiser. and the Manuel Rocha Award Lecture by Dr. Quinghua Lei. Rock Mechanics for Natural Resources and Infrastructure Development is a must-read for academics, engineers and students involved in rock mechanics and engineering. Proceedings in Earth and geosciences - Volume 6 The 'Proceedings in Earth and geosciences' series contains proceedings of peer-reviewed international conferences dealing in earth and geosciences. The main topics covered by the series include: geotechnical engineering, underground construction, mining, rock mechanics, soil mechanics and hydrogeology.

Teaching Mathematical Modelling: Connecting to Research and Practice - Gloria Ann Stillman 2013-10-27

This book provides readers with an overview of recent international research and developments in the teaching and learning of modelling and applications from a variety of theoretical and practical perspectives. There is a strong focus on pedagogical issues for teaching and learning of modelling as well as research into teaching and practice. The teaching of applications of mathematics and mathematical modelling from the early years through primary and secondary school and at tertiary level is rising in prominence in many parts of the world commensurate with an ever-increasing usage of mathematics in business, the environment, industry and everyday life. The authors are all members of the International Community of Teachers of Mathematical Modelling and Applications and important researchers in mathematics education and

mathematics. The book will be of interest to teachers, practitioners and researchers in universities, polytechnics, teacher education, curriculum and policy.

Chalcogens: Advances in Research and Application: 2011 Edition - 2012-01-09

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Lagoa Santa Karst: Brazil's Iconic Karst Region -

Augusto S. Auler 2020-01-22
This book discusses the Lagoa Santa Karst, which has been internationally known since the pioneering studies of the Danish naturalist Peter Lund in the early 1800s. It covers the speleogenesis, geology, vegetation, fauna, hydrogeology, geomorphology, and anthropogenic use of the Lagoa Santa Karst and is the first English-language book on this major karst area. The area, which has been at the heart of

the debate on the origin and age of human colonization in the Americas, is characterized by a classical and scenic karst landscape with limestone cliffs, karst lakes and karst plains, in addition to numerous solution dolines. More than 1,000 caves have been documented in the area, many with significant archeological and paleontological value. Despite its great importance, the Lagoa Santa Karst faces severe environmental threats due to limestone mining and the expansion of the metropolis of Belo Horizonte and its surrounding towns. The growing recognition of the area's remarkable significance has led to increasing concern, and a number of protected areas have now been established, improving the conservation status of this landmark karst area.

[Ecology and Conservation of Mountaintop grasslands in Brazil](#) - Geraldo Wilson Fernandes 2016-04-20

This book is a pioneer attempt to bring forward the first synthesis on the most diverse

and threatened mountain top vegetation of South America, the rupestrian grasslands. It brings to light the state of the art information on this ecosystem geology, soil formation and distribution, environmental filters that lead to biodiversity, species interactions and their fine tuned adaptations to survive the harsh mountain

environment. The human dimensions of the rupestrian grassland are also addressed, including the anthropogenic threats that may irreversibly impact biodiversity and ecosystem services. The book also highlights the ongoing studies on ecological restoration and first attempt to model the impacts of climate change on its speciose biota.