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Cardiovascular and Neurovascular Imaging-Carlo Cavedon 2015-08-22 Cardiovascular and Neurovascular Imaging: Physics and Technology explains the underlying physical and technical principles behind a range of cardiovascular and neurovascular imaging modalities, including radiography, nuclear medicine, ultrasound, and magnetic resonance imaging (MRI). Examining this interdisciplinary branch of medical imaging from a

Progress in Physics, vol. 2/2015-Dmitri Rabounski The Journal on Advanced Studies in Theoretical and Experimental Physics, including Related Themes from Mathematics

ICPMG2014 - Physical Modelling in Geotechnics-Christophe Gaudin 2019-01-08 The 8th International Conference on Physical Modelling in Geotechnics (ICPMG2014) was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering. This quadrennial conference is the traditional focal point for the physical modelling community of academics, scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering. These proceedings, together with the seven previous proceedings dating from 1988, present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years. These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer-reviewed papers from 26 countries. They are organised in 14 themes, presenting the latest developments in physical modelling technology, modelling techniques and sensors, through a wide range of soil-structure interaction problems, including shallow and deep foundations, offshore geotechnics, dams and embankments, excavations and retaining structures and slope stability. Fundamental aspects of earthquake engineering, geohazards, ground reinforcements and improvements, and soil properties and behaviour are also covered, demonstrating the increasing complexity of modelling arising from state-of-the-art technological developments and increased understanding of similitude principles. A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering.

Different Times? Archaeological and Environmental Data from Intra-Site and Off-Site Sequences-Zoï Tsirtsoni 2020-06-18 Proceedings from Session II-8 of the XVIII UISPP Congress, Paris, 2018, questioning temporal correlations between intra-site and off-site data in archaeology-related contexts. The word ‘site’ describes here archaeological sites – usually settlements – where recent research has produced information on the duration and timing of human presence.

Research and Innovation in Physics Education: Two Sides of the Same Coin-Jenaro Guisasola 2020-08-20 This book describes novel approaches designed to enhance the professional training of physics teachers, and explores innovations in the teaching and learning of physics in the classroom and laboratory. It features selected contributions from the International Research Group on Physics Teaching (GIREP) and Multimedia in Physics Teaching and Learning (MPTL) Conference, held in Donostia-San Sebastian, Spain, in July 2018, which brought together two communities: researchers in physics education and physics teachers. The book covers a broad range of topics, highlighting important aspects of the relationship between research and innovation in the teaching of physics, and presenting fresh insights to help improve learning processes and instruction. Offering a contemporary vision of physics teaching and the learning process, the book is of interest to all teachers and researchers committed to teaching and learning physics on the basis of good evidence.

School Science Practical Work in Africa-Umesh Ramnarain 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools. It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research-informed practices on school science practical work. The book highlights trends and patterns in the enactment and role of practical work across African countries. Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry-based learning, which signals a definite paradigm shift from the traditional teacher-dominated to a learner-centered approach. The book provides empirical research on approaches to practical work, contextual factors in the enactment of practical work, and professional development in teaching practical work. This book will be of great interest to academics, researchers and post-graduate students in the fields of science education and educational policy.

International Conference on Education and Management Science (ICEMS2014)- 2014-09-24 2014 International Conference on Education and Management Science (ICEMS2014) will be held in Beijing, China on August 19–20, 2014. The main purpose of this conference is to provide a common forum for researchers, scientists, and students from all over the world to present their recent findings, ideas, developments and application in the border areas of Education and Management Science. It will also report progress and development of methodologies, technologies, planning and implementation, tools and standards in information systems. Education is an internal topic. It is a process of delivering knowledge in a basic meaning. Humans are hard to define the actual definition of education. But it is the key point for our society to step forward. Management science is the discipline that adapts the scientific approach for problem solving to help managers making informed decisions. The goal of management science is to recommend the course of action that is expected to yield the best outcome with what is available.

GENERAL SCIENCE SOLVED PAPERS-YCT EXPERT TEAM 2020 RRB GENERAL SCIENCE SOLVED PAPERS

IJER Vol 25-N3-International Journal of Educational Reform 2016-12-20 The mission of the International Journal of Educational Reform (IJER) is to keep readers up-to-date with worldwide developments in education reform by providing scholarly information and practical analysis from recognized international authorities. As the only peer-reviewed scholarly publication that combines authors’ voices without regard for the political affiliations perspectives, or research methodologies, IJER provides readers with a balanced view of all sides of the political and educational mainstream. To this end, IJER includes, but is not limited to, inquiry based and opinion pieces on developments in such areas as policy, administration, curriculum, instruction, law, and research. IJER should thus be of interest to professional educators with decision-making roles and policymakers at all levels turn since it provides a broad-based conversation between and among policymakers, practitioners, and academicians about reform goals, objectives, and methods for success throughout the world. Readers can call on IJER to learn from an international group of reform implementers by discovering what they can do that has actually worked. IJER can also help readers to understand the pitfalls of current reforms in order to avoid making similar mistakes. Finally, it is the mission of IJER to help readers to learn about key issues in school reform from movers and shakers who help to study and shape the power base directing educational reform in the U.S. and the world.

Papers, Literary, Scientific, Etc.-Fleeming Jenkin 2014-01-02 Published in 1887, this two-volume collection illuminates the life and interests of an

electrical engineer, university teacher and wide-ranging writer.

Environmental Systems Science-Daniel Vallero 2021-05-28 Environmental Systems Science: Theory and Practical Applications looks at pollution and environmental quality from a systems perspective. Credible human and ecological risk estimation and prediction methods are described, including life cycle assessment, feasibility studies, pollution control decision tools, and approaches to determine adverse outcome pathways, fate and transport, sampling and analysis, and cost-effectiveness. The book brings translational science to environmental quality, applying groundbreaking methodologies like informatics, data mining, and applications of secondary data systems. Multiple human and ecological variables are introduced and integrated to support calculations that aid environmental and public health decision making. The book bridges the perspectives of scientists, engineers, and other professionals working in numerous environmental and public health fields addressing problems like toxic substances, deforestation, climate change, and loss of biological diversity, recommending sustainable solutions to these and other seemingly intractable environmental problems. The causal agents discussed include physical, chemical, and biological agents, such as per- and polyfluoroalkyl substances (PFAS), SARS-CoV-2 (the COVID-19 virus), and other emerging contaminants. Provides an optimistic and interdisciplinary approach, underpinned by scientific first principles and theory to evaluate pollutant sources and sinks, applying biochemodynamic methods, measurements and models Deconstructs prior initiatives in environmental assessment and management using an interdisciplinary approach to evaluate what has worked and why Lays out a holistic understanding of the real impact of human activities on the current state of pollution, linking the physical sciences and engineering with socioeconomic, cultural perspectives, and environmental justice Takes a life cycle view of human and ecological systems, from the molecular to the planetary scale, integrating theories and tools from various disciplines to assess the current and projected states of environmental quality Explains the elements of risk, reliability and resilience of built and natural systems, including discussions of toxicology, sustainability, and human-pollutant interactions based on spatial, biological, and human activity information, i.e. the exposome

Trend Following-Michael W. Covel 2017-04-24 Want to take the financial journey to a new investing philosophy that might very well affect the rest of your moneymaking life? No one can guarantee the yellow brick road, but Michael Covel promises the red pill will leave you wide freaking awake. Trend Following reveals the truth about a trading strategy that makes money in up, down and surprise markets. By applying straightforward and repeatable rules, anyone can learn to make money in the markets whether bull, bear, or black swan—by following the trend to the end when it bends. In this timely reboot of his bestselling classic, Michael Covel dives headfirst into trend following strategy to examine the risks, benefits, people, and systems. You'll hear from traders who have made millions by following trends, and learn from their successes and mistakes—insights only here. You'll learn the trend philosophy, and how it has performed in booms, bubbles, panics and crashes. Using incontrovertible data and overwhelming supporting evidence, with a direct connection to the foundations of behavioral finance, Covel takes you inside the core principles of trend following and shows everyone, from brand new trader to professional, how alpha gets pulled from the market. Covel's newest edition has been revised and extended, with 7 brand new interviews and research proof from his one of kind network. This is trend following for today's generation. If you're looking to go beyond passive index funds and trusting the Fed, this cutting edge classic holds the keys to a weatherproof portfolio. Meet great trend followers learning their rules and philosophy of the game Examine data to see how trend following excels when the you-know-what hits the fan Understand trend trading, from behavioral economics to rules based decision-making to its lambasting of the efficient markets theory Compare trend trading systems to do it yourself or invest with a trend fund Trend following is not prediction, passive index investing, buy and hope or any form of fundamental analysis. It utilizes concrete rules, or heuristics, to profit from a behavioral perspective. Trend Following is clear-cut, straightforward and evidence-based and will secure your financial future in bull, bear and black swan markets. If you're finally ready to profit in the markets, Trend Following is the definitive treatise for a complex world in constant chaos.

Cyber-Physical Laboratories in Engineering and Science Education-Michael E. Auer 2018-04-26 This volume investigates a number of issues needed to develop a modular, effective, versatile, cost effective, pedagogically-embedded, user-friendly, and sustainable online laboratory system that can deliver its true potential in the national and global arenas. This allows individual researchers to develop their own modular systems with a level of creativity and innovation while at the same time ensuring continuing growth by separating the responsibility for creating online laboratories from the responsibility for overseeing the students who use them. The volume first introduces the reader to several system architectures that have proven successful in many online laboratory settings. The following chapters then describe real-life experiences in the area of online laboratories from both technological and educational points of view. The volume further collects experiences and evidence on the effective use of online labs in the context of a diversity of pedagogical issues. It also illustrates successful online laboratories to highlight best practices as case studies and describes the technological design strategies, implementation details, and classroom activities as well as learning from these developments. Finally the volume describes the creation and deployment of commercial products, tools and services for online laboratory development. It also provides an idea about the developments that are on the horizon to support this area.

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.

Consciousness and Being-Robert C. Trundle 2019-02-14 This book is of vital interest to anyone who yearns to know how science, theology, ethics, art, and politics do really afford objective truths. Not only that, but how these truths in seemingly clashing areas are interrelated by common sense and rooted in our incontrovertible consciousness of Being itself. Being itself, as the basis for truth, is defended against truth-denying modern philosophers who, having headed in the wrong direction with tragic costs of murderous ideologies, have completely misunderstood the simple origin of truth in the realist tradition of Aristotle, Aquinas, Etienne Gilson, and others. Their profoundness is not bamboozled by the covert and corrupting sophism of today's teachings. Anyone interested in surmounting these teachings that include political correctness and a false divide of fact from value, which paralyze the very modern ethics that helped to create them, should read this book. The book reveals how ethics, art, and politics can be as true as the sciences that inform them.

iCEER2014-McMaster Digest-Mohamed Bakr 2014-11-18 International Conference on Engineering Education and Research

2014 International Conference on Mechanical Design, Manufacture and Automation Engineering (MDMAE2014)-D. P. Yasin 2014-02-04 Automation Engineering (MDMAE2014) is to provide a platform for all researchers in the field of Mechanical, Manufacture, Automation and Material Engineering to share the most advanced knowledge from both academic and industrial world, and to communicate with each other about their experiences and the most up-to-date research achievements, discussing forward issues and future prospects, seeking a better way to solve practical problems in this fields. As the first international conference on MDMAE, consisting of five main topics: Mechanical Engineering, Automation Engineering, Manufacturing Systems, Materials Engineering and Measurement and Test, which offer attendees free space to present their inspiring works and academic achievements mixed with the atmosphere of industry and academia, it has attracted many scholars, researchers and practitioners in these fields from various countries to get together in this conference, sharing their latest research achievements with each other , enriching their professional knowledge and broadening their horizons as well.

Atlas of Knowledge-Katy Borner 2015-03-20 The power of mapping: principles for visualizing knowledge, illustrated by many stunning large-scale, full-color maps. Maps of physical spaces locate us in the world and help us navigate unfamiliar routes. Maps of topical spaces help us visualize the extent and structure of our collective knowledge; they reveal bursts of activity, pathways of ideas, and borders that beg to be crossed. This book, from the author of Atlas of Science, describes the power of topical maps, providing readers with principles for visualizing knowledge and offering as examples forty large-scale and more than 100 small-scale full-color maps. Today, data literacy is becoming as important as language literacy. Well-designed visualizations can rescue us from a sea of data, helping us to make sense of information, connect ideas, and make better decisions in real time. In Atlas of Knowledge, leading visualization expert Katy Börner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis. Drawing on fifteen years of teaching and tool development, she introduces a theoretical framework meant to guide readers through user and task analysis; data preparation, analysis, and visualization; visualization deployment; and the interpretation of science maps. To exemplify the framework, the Atlas features striking and enlightening new maps from the popular “Places & Spaces: Mapping Science” exhibit that range from “Key Events in the Development of the Video Tape Recorder” to “Mobile Landscapes: Location Data from Cell Phones for Urban Analysis” to “Literary Empires: Mapping Temporal and Spatial Settings of Victorian Poetry” to “Seeing Standards: A Visualization of the Metadata Universe.” She also discusses the possible effect of science maps on the practice of science.

Modern Information Technology and IT Education-Vladimir Sukhomlin 2020-05-11 This book constitutes the refereed proceedings of the 13th International Conference on Modern Information Technology and IT Education, held in Moscow, Russia, in November-December 2018. The 30 full papers and 1 short papers were carefully reviewed and selected from 164 submissions. The papers are organized according to the following topics: IT-education: methodology, methodological support; e-learning and IT in education; educational resources and best practices of IT-education; research and development in the field of new IT and their applications; scientific software in education and science; school education in computer science and ICT; economic informatics.

ECCWS2014-Proceedings of the 13th European Conference on Cyber warefare and Security-Andrew Liaropoulos 2014-03-07

Preparing Informal Science Educators-Patricia G Patrick 2017-01-16 This book provides a diverse look at various aspects of preparing informal science educators. Much has been published about the importance of preparing formal classroom educators, but little has been written about the importance, need, and best practices for training professionals who teach in aquariums, camps, parks, museums, etc. The reader will find that as a collective the chapters of the book are well-related and paint a clear picture that there are varying ways to approach informal educator preparation, but all are important. The volume is divided into five topics: Defining Informal Science Education, Professional Development, Designing Programs, Zone of Reflexivity: The Space Between Formal and Informal Educators, and Public Communication. The authors have written chapters for practitioners, researchers and those who are interested in assessment and evaluation, formal and informal educator preparation, gender equity, place-based education, professional development, program design, reflective practice, and science communication. Readers will draw meaning and usefulness from the array of professional perspectives and be stimulated to begin a quest to scaffold programs and professional development around the frameworks described in this book.

ECGBL2014-8th European Conference on Games Based Learning-Carsten Busch 2014-11-11

Science Formative Assessment, Volume 1-Page Keeley 2015-09-09 Formative assessment informs the design of learning opportunities that take students from their existing ideas of science to the scientific ideas and practices that support conceptual understanding. Science Formative Assessment shows K-12 educators how to weave formative assessment into daily instruction. Discover 75 assessment techniques linked to the Next Generation Science Standards and give classroom practices a boost with: Descriptions of how each technique promotes learning Charts linking core concepts at each grade level to scientific practices Implementation guidance, such as required materials and student grouping Modifications for different learning styles Ideas for adapting techniques to other content areas

The long and short of mental time travel-- self-projection over time-scales large and small-James M. Broadway 2015-07-02 Researchers working in many fields of psychology and neuroscience are interested in the temporal structure of experience, as well as the experience of time, at scales of a few milliseconds up to a few seconds as well as days, months, years, and beyond. This Research Topic supposes that broadly speaking, the field of "time psychology" can be organized by distinguishing between "perceptual" and "conceptual" time-scales. Dealing with conceptual time: "mental time travel," also called mental simulation, self-projection, episodic-semantic memory, prospection/foresight, allows humans (and perhaps other animals) to imagine and plan events and experiences in their personal futures, based in large part on memories of their personal pasts, as well as general knowledge. Moreover, contents of human language and thought are fundamentally organized by a temporal dimension, enmeshed with it so thoroughly that it is usually expressible only through spatial metaphors. But what might such notions have to do with experienced durations of events lasting milliseconds up to a few seconds, during the so-called "present moment" of perception-action cycle time? This Research Topic is organized around the general premise that, by considering how mental time travel might "scale down" to time perception (and vice-versa, no less), progress and integrative synthesis within- and across- scientific domains might be facilitated. Bipolar configurations of future- and past-orientations of the self may be repeated in parallel across conceptual and perceptual time-scales, subsumed by a general "Janus-like" feedforward-feedback system for goal-pursuit. As an example, it is notable that the duality of "prospection" and semantic-episodic memory operating at conceptual time-scales has an analogue in perception-action cycle time, namely the interplay of anticipatory attention and working memory. Authors from all areas of psychology and neuroscience are encouraged to submit articles of any format accepted by the journal (Original Research, Methods, Hypothesis & Theory, Reviews, etc.), which might speak to questions about time and temporal phenomena at long and/or short time-scales.

ECRM2014-Proceedings of the 13th European Conference on Research Methodology for Business and Management Studies-Dr Martin Rich 2014-06-16

Advanced Turbulent Combustion Physics and Applications-N. Swaminathan 2021-06-30 Explore a thorough overview of the current knowledge, developments and outstanding challenges in turbulent combustion and application.

ITJEMAST 10(16) 2019- International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related disciplines as well as interdisciplinary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications.

Science Investigation-Azra Moeed 2015-01-24 This book reports the findings of an interpretive case study of the phenomenon of science investigation (science inquiry) from students’ perspective. Data were collected from a class of twenty-four Year 11 students in a middle size, co-educational New Zealand school, through Science Laboratory Environment Inventory, student questionnaires, focus group interviews and classroom observations. The participants provided some insightful comments about their learning of science investigation. Illustrative examples highlight; what students found motivational and what demotivated them, what and how they learnt through carrying out science investigation, and how internal assessment influenced their motivation to learn and learning. The connectedness between the complexities of learning science investigation and how motivation, and assessment influenced these 15 year old students’ learning is discussed.

Trusted Systems-Moti Yung 2016-01-29 Normal 0 false false false EN-US X-NONE X-NONE This book constitutes the thoroughly refereed post-conference proceedings of the 6th International Conference on Trusted Systems, INTRUST 2014, held in Beijing, China, in December 2014. The conference brings together academic and industrial researchers, designers, and implementers with end-users of trusted systems, in order to foster the exchange of ideas in this challenging and fruitful area. The revised full

papers focus on the theory, technologies and applications of trusted systems and cover all aspects of trusted computing systems, including trusted modules, platforms, networks, services and applications, from their fundamental features and functionalities to design principles, architecture and implementation technologies. /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-qformat:yes; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:11.0pt; font-family:"Calibri","sans-serif"; mso-ascii-font-family:Calibri; mso-ascii-theme-font:minor-latin; mso-fareast-font-family:"Times New Roman"; mso-fareast-theme-font:minor-fareast; mso-hansi-font-family:Calibri; mso-hansi-theme-font:minor-latin; mso-bidi-font-family:"Times New Roman"; mso-bidi-theme-font:minor-bidi;}

Creativity and Universality in Language-Mirko Degli Esposti 2016-05-18 This book collects research contributions concerning quantitative approaches to characterize originality and universality in language. The target audience comprises researchers and experts in the field but the book may also be beneficial for graduate students. Creativity might be considered as a morphogenetic process combining universal features with originality. While quantitative methods applied to text and music reveal universal features of language and music, originality is a highly appreciated feature of authors, composers, and performers. In this framework, the different methods of traditional problems of authorship attribution and document classification provide important insights on how to quantify the unique features of authors, composers, and styles. Such unique features contrast, and are restricted by, universal signatures, such as scaling laws in word-frequency distribution, entropy measures, long-range correlations, among others. This interplay between innovation and universality is also an essential ingredient of methods for automatic text generation. Innovation in language becomes relevant when it is imitated and spread to other speakers and musicians. Modern digital databases provide new opportunities to characterize and model the creation and evolution of linguistic innovations on historical time scales, a particularly important example of the more general problem of spreading of innovations in complex social systems. This multidisciplinary book combines scientists from various different backgrounds interested in quantitative analysis of variations (synchronic and diachronic) in language and music. The aim is to obtain a deeper understanding of how originality emerges, can be quantified, and propagates.

The World of Physics-John Avison 2014-11 This clear and easy to follow text has been revised to meet modern exam requirements: - New material on forces, machines, motion, properties of matter, electronics and energy - Actual GCSE and Standard Grade exam questions - Problem-solving investigations - Practice in experimental design

Finding List of Books Common to the Branches of the Public Library of the City of Boston-Boston Public Library 1920

African Indigenous Knowledge and the Sciences-Gloria Emeagwali 2016-07-08 This book is an intellectual journey into epistemology, pedagogy, physics, architecture, medicine and metallurgy. The focus is on various dimensions of African Indigenous Knowledge (AIK) with an emphasis on the sciences, an area that has been neglected in AIK discourse. The authors provide diverse views and perspectives on African indigenous scientific and technological knowledge that can benefit a wide spectrum of academics, scholars, students, development agents, and policy makers, in both governmental and non-governmental organizations, and enable critical and alternative analyses and possibilities for understanding science and technology in an African historical and contemporary context.

Counterterrorism-Davis Langdon 2015-07-17 Counterterrorism: Reassessing the Policy Response promotes a more nuanced understanding of the effectiveness of current counterterrorism practices and the need for reform. It challenges government, media, and academic accounts that exaggerate terrorist threats, particularly in comparison to other threats such as organized crime. Author BenoGomis r

Theoretical Aspects of Computing – ICTAC 2014-Gabriel Ciobanu 2014-09-23 This book constitutes the refereed proceedings of the 11th International Colloquium on Theoretical Aspects of Computing, ICTAC 2014 held in Bucharest, Romania, in September 2014. The 25 revised full papers presented together with three invited talks were carefully reviewed and selected from 74 submissions. The papers cover various topics such as automata theory and formal languages; principles and semantics of programming languages; theories of concurrency, mobility and reconfiguration; logics and their applications; software architectures and their models, refinement and verification; relationship between software requirements, models and code; static and dynamic program analysis and verification; software specification, refinement, verification and testing; model checking and theorem proving; models of object and component systems; coordination and feature interaction; integration of theories, formal methods and tools for engineering computing systems; service-oriented architectures: models and development methods; models of concurrency, security, and mobility; theories of distributed, grid and cloud computing; real-time, embedded, hybrid and cyber-physical systems; type and category theory in computer science; models for e-learning and education; case studies, theories, tools and experiments of verified systems; domain-specific modeling and technology: examples, frameworks and practical experience; challenges and foundations in environmental modeling and monitoring, healthcare, and disaster management.

The Oxford Handbook of Water Politics and Policy-Ken Conca 2018-01-26 Water is a basic human need and a scarce commodity with increasing value to farmers, industries, and cities in an urbanizing world. It is unpredictable in supply and quality, difficult to contain or direct, and notoriously difficult to manage well. Several trends -- climate change, the endurance of widespread global water poverty, intensifying competition among rival uses and users, and the vulnerability of critical freshwater ecosystems -- combine to intensify the challenges of governing water wisely, fairly, and efficiently. The twenty-seven chapters in The Oxford Handbook of Water Politics and Policy address such issues over the course of seven thematic sections. These themes reflect familiar frameworks in the water policy world, including water, poverty, and health; water and nature; and water equity and justice. Other sections look at emergent and contentious policy arenas, including the water/energy/food nexus and management of uncertainty in water supply, or connect well-established strands in new ways, including sections on water tools (water price and value, supply and demand, privatization, corporate responsibility) and issues surrounding transboundary waters. This volume conceives of water as a global issue, and gathers a diverse group of leading scholars of water politics and policy.

CAA2014: 21st Century Archaeology-F. Giligny 2015-03-31 This volume brings together a selection of papers proposed for the Proceedings of the 42nd Computer Applications and Quantitative Methods in Archaeology conference (CAA), hosted at Paris 1 Pantheon-Sorbonne University from 22nd to 25th April 2014.

Ethical Innovation in Business and the Economy-Georges Enderle 2015-12-18 Innovation has become a buzzword that promises dramatic changes in almost every field of business. Absent from this attention is a serious discussion of the ethical sides of dramatic change. To address this, editors Georges Enderle and Patrick E. Murphy gather a team of experts to fully examine the ethics of innovation within business and the economy in this standout addition to the Studies in TransAtlantic Business Ethics series.

How Physics Makes Us Free-J T Ismael 2016-03-03 In 1687 Isaac Newton ushered in a new scientific era in which laws of nature could be used to predict the movements of matter with almost perfect precision. Newton's physics also posed a profound challenge to our self-understanding, however, for the very same laws that keep airplanes in the air and rivers flowing downhill tell us that it is in principle possible to predict what each of us will do every second of our entire lives, given the early conditions of the universe. Can it really be that even while you toss and turn late at night in the throes of an important decision and it seems like the scales of fate hang in the balance, that your decision is a foregone conclusion? Can it really be that everything you have done and everything you ever will do is determined by facts that were in place long before you were born? This problem is one of the staples of philosophical discussion. It is discussed by everyone from freshman in their first philosophy class, to theoretical physicists in bars after conferences. And yet there is no topic that remains more unsettling, and less well understood. If you want to get behind the façade, past the bare statement of determinism, and really try to understand what physics is telling us in its own terms, read this book. The problem of free will raises all kinds of questions. What does it mean to make a decision, and what does it mean to say that our actions are determined? What are laws of nature? What are causes? What sorts of things are we, when viewed through the lenses of physics, and how do we fit into the natural order? Ismael provides a deeply informed account of what physics tells us about ourselves. The result is a vision that is abstract, alien, illuminating, and-Ismael argues-affirmative of most of what we all believe about our own freedom. Written in a jargon-free style, How Physics Makes Us Free

provides an accessible and innovative take on a central question of human existence.

What Should Schools Teach?-Alka Sehgal Cuthbert 2021-01-07 The design of school curriculums involves deep thought about the nature of knowledge and its value to learners and society. It is a serious responsibility that raises a number of questions. What is knowledge for? What knowledge is important for children to learn? How do we decide what knowledge matters in each school subject? And how far should the knowledge we teach in school be related to academic disciplinary knowledge? These and many other questions are taken up in What Should Schools Teach? The blurring of distinctions between pedagogy and curriculum, and between experience and knowledge, has served up a confusing message for teachers about the part that each plays in the education of children. Schools teach through subjects, but there is little consensus about what constitutes a subject and what they are for. This book aims to dispel confusion through a robust rationale for what schools should teach that offers key understanding to teachers of the relationship between knowledge (what to teach) and their own pedagogy (how to teach), and how both need to be informed by values of intellectual freedom and autonomy. This second edition includes new chapters on Chemistry, Drama, Music and Religious Education, and an updated chapter on Biology. A revised introduction reflects on emerging discourse around decolonizing the curriculum, and on the relationship between the knowledge that children encounter at school and in their homes.