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GOOD SELAH

EKAW 2016 Satellite Events, EKM and Drift-an-LOD, Bologna, Italy, November 19–23, 2016, Revised Selected Papers Routledge
This edited volume focuses on the reform and research of STEM education from international perspectives considering the sociocultural perspectives of different educational contexts. It shows the impact of political and cultural contexts on the reform of science education.
Foundations of Data Science Frontiers Media SA
As technology advances, it is imperative to stay current in the newest developments made within the engineering industry and within material sciences. Trends in manufacturing such as 3D printing, casting, welding, surface modification, computer numerical control (CNC), non-traditional, Industry 4.0 ergonomics, and hybrid machining methods must be closely examined to utilize these important resources for the betterment of society. Advanced Manufacturing Techniques for Engineering and Engineered Materials provides a unified and complete overview about the recent and emerging trends, developments, and associated technology with scope for the commercialization of techniques specific to manufacturing materials. This book also reviews the various machining methods for difficult-to-cut materials and novel materials including matrix composites. Covering topics such as agro-waste, conventional machining, and material performance, this book is an essential resource for researchers, engineers, technologists, students and professors of higher education, industry workers, entrepreneurs, researchers, and academicians.

Engineering Technology, Engineering Education and Engineering Management Elsevier
This beautifully illustrated pop science book which answers the enduring questions raised by science fiction, such as “Do hoverboards really exist?”, “How can you bring a dinosaur back to life?” and “Can we really travel in time and space?” Packed with stunning images, including 75 illustrations created exclusively for this book, Blueprint for a Battlestar takes twenty-five remarkable and memorable technologies from the world of sci-fi, from Star Wars and The Matrix to Ironman and The Terminator. Each concept will be explained and dissected to reveal the real science behind it. Some are boldly obvious – such as the Death Star and exoskeletons – and some less so (think bio-ports or cloaking devices). All are fascinating and will make wonderful explorations into the science of the future as we understand it today.
Blueprint for a Battlestar IGI Global
The contemporary world lives on the data produced at an unprecedented speed through social networks and the internet of things (IoT). Data has been called the new global currency, and its rise is transforming entire industries, providing a wealth of opportunities. Applied data science research is necessary to derive useful information from big data for the effective and efficient utilization to solve real-world problems. A broad analytical set allied with strong business logic is fundamental in today’s corporations. Organizations work to obtain competitive advantage by analyzing the data produced within and outside their organizational limits to support their decision-making processes. This book aims to provide an overview of the concepts, tools, and techniques behind the fields of data science and artificial intelligence (AI) applied to business and industries. The Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry discusses all stages of data science to AI and their application to

real problems across industries—from science and engineering to academia and commerce. This book brings together practice and science to build successful data solutions, showing how to uncover hidden patterns and leverage them to improve all aspects of business performance by making sense of data from both web and offline environments. Covering topics including applied AI, consumer behavior analytics, and machine learning, this text is essential for data scientists, IT specialists, managers, executives, software and computer engineers, researchers, practitioners, academicians, and students.

SAEQ Simon and Schuster

This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics. The proceedings consist of 82 papers presented at the Science and Mathematics International Conference (SMIC) 2018, organised by the Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, Indonesia. The proceedings are organised in four parts: Science, Science Education, Mathematics, and Mathematics Education. The papers contribute to our understanding of important contemporary issues in science, especially nanotechnology, materials and environmental science; science education, in particular, environmental sustainability, STEM and STEAM education, 21st century skills, technology education, and green chemistry; and mathematics and its application in statistics, computer science, and mathematics education.

Serious Scientific Explanations for Sci-Fis Greatest Inventions Springer

The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community. As a result, the latest findings, research and discoveries can be quickly disseminated. This workshop provides all participating research groups with an excellent platform for interaction and collaboration with other members of their respective scientific community. This workshop's technical sessions include various current and significant topics for applications and scientific developments, including • Optoelectronics • VLSI & ULSI Technology • Photovoltaics • MEMS & Sensors • Device Modeling and Simulation • High Frequency/ Power Devices • Nanotechnology and Emerging Areas • Organic Electronics • Displays and Lighting Many eminent scientists from various national and international organizations are actively participating with their latest research works and also equally supporting this mega event by joining the various organizing committees.

13th International Symposium on Process SystemsEngineering – PSE 2018, July 1-5 2018 Cambridge University Press

This book is devoted to a thorough investigation of the physics and applications of the vacuum arc – a highly-ionized metallic plasma source used in a number of applications – with emphasis on cathode spot phenomena and plasma formation. The goal is to understand the origins and behavior of the various complex and sometimes mysterious phenomena involved in arc formation, such as cathode spots, electrode vaporization, and near-electrode plasma formation. The book takes the reader from a model of dense cathode plasma based on charge-exchange ion-atom collisions through a kinetic approach to cathode vaporization and on to metal thermophysical properties of cathodes. This picture is further enhanced by an in-depth study of cathode jets and plasma acceleration, the effects of magnetic fields on cathode spot behavior, and electrical characteristics of arcs and cathode spot dynamics. The book also describes applications to space propulsion, thin film deposition, laser plasma generation, and magnetohydrodynamics, making this comprehensive and up-to-date volume a valuable resource for researchers in academia and industry.

Enzyme or Whole Cell Immobilization for Efficient Biocatalysis: Focusing on Novel Supporting Platforms and Immobilization Techniques BRILL

Teacher Education and Practice, a peer-refereed journal, is dedicated to the encouragement and the dissemination of research and scholarship related to professional education. The journal is concerned, in the broadest sense, with teacher preparation, practice and policy issues related to the teaching profession, as well as being concerned with learning in the school setting. The journal also serves as a forum for the exchange of diverse ideas and points of view within these purposes. As a forum, the journal offers a public space in which to critically examine current discourse and practice as well as engage in generative dialogue. Alternative forms of inquiry and representation are invited, and authors from a variety of backgrounds and diverse perspectives are encouraged to contribute. Teacher Education & Practice is published by Rowman & Littlefield.

IJER Vol 24-N4 Springer Nature

This book constitutes the thoroughly refereed proceedings of the 9th International Conference on Computer Supported Education, CSEDU 2017, held in Porto, Portugal, in April 2017. The 22 revised full papers were carefully reviewed and selected from 179 submissions. The papers deal with the following topics: new educational environments, best practices and case studies of innovative technology-based learning strategies, institutional policies on computer-supported education including open and distance education.

Proceedings of the 19th International Conference on New Trends in Civil Aviation 2017 (NTCA 2017), December 7-8, 2017, Prague, Czech Republic Cambridge University Press

This volume contains thirty-nine revised and extended research articles, written by prominent researchers participating in the World Congress on Engineering and Computer Science 2014, held in San Francisco, October 22-24 2014. Topics covered include engineering mathematics, electrical engineering, circuit design, communications systems, computer science, chemical engineering, systems engineering and applications of engineering science in industry. This book describes some significant advances in engineering technologies and also serves as an excellent source of reference for researchers and graduate students.

Network Science Cambridge Scholars Publishing

This updated and revised first-course textbook in applied probability provides a contemporary and lively post-calculus introduction to the subject of probability. The exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios. It is intended to appeal to a wide audience, including mathematics and statistics majors, prospective engineers and scientists, and those business and social science majors interested in the quantitative aspects of their disciplines. The textbook contains enough material for a year-long course, though many instructors will use it for a single term (one semester or one quarter). As such, three course syllabi with expanded course outlines are now available for download on the book's page on the Springer website. A one-term course would cover material in the core chapters (1-4), supplemented by selections from one or more of the remaining chapters on statistical inference (Ch. 5), Markov chains (Ch. 6), stochastic processes (Ch. 7), and signal processing (Ch. 8—available exclusively online and specifically designed for electrical and computer engineers, making the book suitable for a one-term class on random signals and noise). For a year-long course, core chapters (1-4) are accessible to those who have taken a year of univariate differential and integral calculus; matrix algebra, multivariate calculus, and engineering mathematics are needed for the latter, more advanced chapters. At the heart of the textbook's pedagogy are 1,100 applied exercises, ranging from straightforward to reasonably challenging, roughly 700 exercises in the first four "core" chapters alone—a self-contained textbook of problems introducing basic theoretical knowledge necessary for solving problems and illustrating how to solve the problems at hand – in R and MATLAB, including code so that students can create simulations. New to this edition • Updated and re-worked Recommended Coverage for instructors, detailing which courses should use the textbook and how to utilize different sections for various objectives and time constraints • Extended and revised instructions and solutions to problem sets • Overhaul of Section 7.7 on continuous-time Markov chains • Supplementary materials include three sample syllabi and updated solutions manuals for both instructors and students

Yearbook of International Organizations 2013-2014 CRC Press

This book contains proceedings of the International Conference on Advances in Computing, Control and Communication Technology (IAC3T) organized by Centre for Computer Education, Institute of Professional Studies, University of Allahabad during March 25-27, 2016 at Allahabad. A total of 138 full papers were submitted to the conference, out of which about 40 papers were accepted and finally 35 papers were presented during the conference. This book contains these papers. The conference was a major multidisciplinary conference organized with the objective to expose the participants to the emerging trends in the area of computing, control and communication technology. The conference intended to serve as a major international forum for the exchange of ideas and to provide an interactive platform to the students (budding engineers), engineers, researchers and academicians to exchange their innovative ideas and experiences in the area of advancements in computing, control and communication technology.

Theory, design and practice Springer

This book contains the best selected papers of two Satellite Events held at the 20th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2016, in November 2016 in Bologna, Italy: The Second International Workshop on Educational Knowledge Management, EKM 2016, and the First Workshop: Detection, Representation and Management of Concept Drift in Linked Open Data, Drift-an-LOD 2016. The 6 revised full papers included in this volume were carefully reviewed and selected from the 13 full papers that were accepted for presentation at the conference from the initial 82 submissions. This volume also contains the 37 accepted contributions for the EKAW 2016 tutorials, demo and poster sessions, and the doctoral consortium. The special focus of this year's EKAW was "evolving knowledge", which concerns all aspects of the management and acquisition of knowledge representations of evolving, contextual, and local models. This includes change management, trend detection, model evolution, streaming data and stream reasoning, event processing, time-and space dependent models, contextual and local knowledge representations with a special emphasis on the evolvability and localization of knowledge and the correct usage of these limits.

Environmental Catalysis and the Corresponding Catalytic Mechanism Frontiers Media SA

Process Systems Engineering brings together the international community of researchers and engineers interested in computing-based methods in process engineering. This conference highlights the contributions of the PSE community towards the sustainability of modern society and is based on the 13th International Symposium on Process Systems Engineering PSE 2018 event held San Diego, CA, July 1-5 2018. The book contains contributions from academia and industry, establishing the core products of PSE, defining the new and changing scope of our results, and future challenges. Plenary and keynote lectures discuss real-world challenges (globalization, energy, environment and health) and contribute to discussions on the widening scope of PSE versus the consolidation of the core topics of PSE. Highlights how the Process Systems Engineering community contributes to the sustainability of modern society Establishes the core products of Process Systems Engineering Defines the future challenges of Process Systems Engineering

Proceedings of the International Conference on Computational Science and Engineering (Beliaghata, Kolkata, India, 4-6 October 2016) John Wiley & Sons

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.

Photocatalytic Systems by Design Springer Science & Business Media

Computational Science and Engineering contains peer-reviewed research presented at the International Conference on Computational Science and Engineering (RCC Institute of Information Technology, Kolkata, India, 4-6 October 2016). The contributions cover a wide range of topics: - electronic devices - photonics - electromagnetics - soft computing - artificial intelligence - modern communication systems Focussing on strong theoretical and methodological approaches and applications, Computational Science and Engineering will be of interest to academia and professionals involved or interested in the above mentioned domains.

8th IFIP WG 11.11 International Conference, IFIPTM 2014, Singapore, July 7-10, 2014, Proceedings Springer

This volume contains papers presented at the International Conference on Engineering Technologies, Engineering Education and Engineering Management (ETEEEM 2014, Hong Kong, 15-16 November 2014). A wide variety of topics is included in the book: - Engineering Education - Education

Engineering and Technology - Methods and Learning Mechanism
JSL Vol 28-N4 WIT Press
Curriculum Leadership by Middle Leaders focusses on major issues relating to the continuing national and international discourse on curriculum leadership, and highlights the vital role of middle leaders in schools. School leadership has focused primarily on first-order change involving school leaders or principals. This book seeks to put the spotlight on second-order change that involves curriculum leadership and professional development support on the part of middle leaders for more sustainable and long-term change in teaching and learning that will influence what happens in classrooms. With timely and thought-provoking contribution from authors who pursue a range of scholarly interests in multiple educational settings, the book is guided by several underlying questions: How might we re-envision curriculum leadership so that it addresses both local and global concerns and aspirations? How might we better grasp how middle leaders understand and respond to the pressures of educational reform initiatives? How might middle leaders transform pressures into possibilities? This book will appeal to current teachers, those currently undertaking teacher training and students or academics carrying out research in the field of educational leadership.
Transactions on Engineering Technologies Rowman & Littlefield
Issue 04 July-Aug-Sept 2014 Diagnosis Of The Contact Interaction Of Solid Bodies At Friction Using Fractal Analysis Methods A.Kh. Janahmadov, M.Y. Javadov, O.A. Dyshin Were developed the additional quantitative research tools of the surface roughness: the fractal dimension of curvature on the bearing surface and the fractal dimension of profilograph. These values are used to classify the regimes of the contact interaction of the metal elements at friction and to diagnose the form of contact according to the fractal dimensions scale, which describes the main three types of contacts: elastic, elastic-plastic and plastic. The Stock Price Valuation Based On The Stochastic Modeling Of Financial Data S.M. Javadova The stochastic model is developed to forecast a movement of stock prices as function of the Wiener process. The canonical decomposition of function values through discrete number of points is used to generate the Wiener process. Factors Causing Corrosion And Destruction of Coating in Operation of Oil-Field Pump N.G. Javadov, A.M. Mehtiev The paper review and analyzes factors that contribute towards corrosion and destruction of coating during operation of oil-field pump. It is noted that factors such as cold, moisture, heat, corrosive components of pumped fluid, mechanical stress, etc., have negative impact. Relations Of Cytokine Blood Spectrum With Nephropathy At Patients With Diabetes A.N. Babakhanova Work objective is to study the cytokine status of patients with diabetes of type 1 and type 2 with a complicated nephropathy and an uncomplicated course. 123 patients with diabetes and the control group of 20 people were inspected. By the immune-enzyme analysis of ELISA the levels (INF-γ, TNF-α, IL-6, IL-1β) were determined in blood serum of the patients. The most expressed changes of the cytokine status were observed in the patients of diabetes of type 1 and type 2 which were expressed in the initial increase of the maintenance of all studied pro-inflammatory cytokines (INF-γ, TNF-α, IL-6, IL-1β). Such changes in activation of the pro-inflammatory cytokines characterize this disease as an inflammatory immune-dependent process. The changes in the cytokine status had a non-uniform character with the most expressed changes in IL-1β, TNF-α, INF-γ synthesis ($p \leq 0{,}001$) and a slight increase of IL-6.
Bringing Methodologies from Industry to the Classroom CRC Press
Previous work on terminology planning can be, more or less, divided into general guidelines, local planning, and translation-based activities. This book, however, by avoiding this line of research and any kind of prescription, represents a movement towards generalisation as a prerequisite of theorisation. Its research is predicated on the hypothesis that all terminological activities are founded upon some fundamental principles, which, at the same time, are manifested through context-bound variations or parameters. A particular advantage of the book is its employing of both field research and a review of research literature. The former allows it to carry out a comparative study by using a maximum variation sampling technique for gathering data from four language agencies of different ecolinguistic situations, namely Termcat (Catalan), TNC (Swedish), DGLFLF (French), and the Academy of Persian Language and Literature in Iran. In order to this, it uses a questionnaire concentrating on the macro- and micro-structures of the target organisations as a route map. The literature review allows the book to benefit from research documents from more than thirty sociolinguistic communities. The book's unique feature includes the introduction of new concepts such as linguistics of science, systemic terminology, systemic planning, terminology argumentation, and sociocognitive terminometrics, among others. A further distinguishing feature is the fact that it discusses terminology not in a vacuum, but as a component of the language of science system.