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BRAUN JAYVON

Integrated Computer Technologies in Mechanical Engineering
National Academies Press

This volume contains the peer-reviewed proceedings of the International Conference on Modelling and Simulation (MS-17), held in Kolkata, India, 4th-5th November 2017, organized by the Association for the Advancement of Modelling and Simulation Techniques in Enterprises (AMSE, France) in association with the Institution of Engineering Technology (IET, UK), Kolkata Network. The contributions contained here showcase some recent advances in modelling and simulation across various aspects of science and technology. This book brings together articles describing applications of modelling and simulation techniques in fields as diverse as physics, mathematics, electrical engineering, industrial electronics, control, automation, power systems, energy and robotics. It includes a special section on mechanical, fuzzy, optical and opto-electronic control of oscillations. It provides a snapshot of the state of the art in modelling and simulation methods and their applications, and will be of interest to researchers and engineering professionals from industry, academia and research organizations.

Numerical Mathematics and Advanced Applications ENUMATH 2019 IAP

This book constitutes the proceedings of the third international conference AsiaHaptics 2018, held in Songdo, Korea. It presents the state-of-the-art of the diverse haptics (touch)-related research, including perception and illusion, development of

haptics devices, and applications to a wide variety of fields such as education, medicine, telecommunication, navigation and entertainment. This book is a valuable resource not only for active haptics researchers, but also for general readers wishing to understand the status quo in this interdisciplinary area of science and technology.

Mathematical and computational Models Springer Nature

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. *Pedagogical Challenges* IGI Global

Encyclopedia of Biomedical Engineering is a unique source for rapidly evolving updates on topics that are at the interface of the biological sciences and engineering. Biomaterials, biomedical devices and techniques play a significant role in improving the quality of health care in the developed world. The book covers an extensive range of topics related to biomedical engineering, including biomaterials, sensors, medical devices, imaging modalities and imaging processing. In addition, applications of biomedical engineering, advances in cardiology, drug delivery, gene therapy, orthopedics, ophthalmology, sensing and tissue engineering are explored. This important reference work serves many groups working at the interface of the biological sciences and engineering, including engineering students, biological science students, clinicians, and industrial researchers. Provides students with a concise description of the technologies at the

interface of the biological sciences and engineering Covers all aspects of biomedical engineering, also incorporating perspectives from experts working within the domains of biomedicine, medical engineering, biology, chemistry, physics, electrical engineering, and more Contains reputable, multidisciplinary content from domain experts Presents a 'one-stop' resource for access to information written by world-leading scholars in the field

Effective Learning and Teaching in Engineering K G Saur Verlag Gmbh & Company

The Science and Applications of Synthetic and Systems BiologyWorkshop SummaryNational Academies Press
CAREER GUIDANCE Springer Nature

This book constitutes the thoroughly refereed proceedings of the 5th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2013, held in Vilamoura, Portugal, in September 2013. The 27 full papers presented together with two invited papers were carefully reviewed and selected from 239 submissions. The papers are organized in topical sections on knowledge discovery and information retrieval; knowledge engineering and ontology development; knowledge management and information sharing.

Egyptian Coastal Lakes and Wetlands: Part II Springer

In the recent decades, computational procedures have been applied to an increasing extent in engineering and the physical sciences. Mostly, two separate fields have been considered, namely, the analysis of solids and structures and the analysis of fluid flows. These continuous advances in analyses are of much interest to physicists, mathematicians and in particular, engineers. Also, computational fluid and solid mechanics are no

longer treated as entirely separate fields of applications, but instead, coupled fluid and solid analysis is being pursued. The objective of the Book Series is to publish monographs, textbooks, and proceedings of conferences of archival value, on any subject of computational fluid dynamics, computational solid and structural mechanics, and computational multi-physics dynamics. The publications are written by and for physicists, mathematicians and engineers and are to emphasize the modeling, analysis and solution of problems in engineering.

Engineering Mathematics in Ship Design Springer
Artificial intelligence (AI) describes machines/computers that mimic cognitive functions that humans associate with other human minds, such as learning and problem solving. As businesses have evolved to include more automation of processes, it has become more vital to understand AI and its various applications. Additionally, it is important for workers in the marketing industry to understand how to coincide with and utilize these techniques to enhance and make their work more efficient. The Handbook of Research on Applied AI for International Business and Marketing Applications is a critical scholarly publication that provides comprehensive research on artificial intelligence applications within the context of international business. Highlighting a wide range of topics such as diversification, risk management, and artificial intelligence, this book is ideal for marketers, business professionals, academicians, practitioners, researchers, and students.

Gender Equity in STEM in Higher Education Routledge
Emerging technologies in education are dramatically reshaping the way we teach, learn, and create meaning—both formally and informally. The use of emerging technologies within educational contexts requires new methodological approaches to teaching, learning, and educational research. This leads educational technology developers, researchers, and practitioners to engage in the creation of diverse digital learning tools that can be used in a wide range of learning situations and scenarios. Ultimately, the goal of today's digital learning experiences includes situational experiences wherein learners and teachers symbiotically enroll in meaning-making processes. Discussion, critical reflection, and critique of these emerging technologies, tools, environments, processes, and practices require scholars to involve themselves in critical conversation about the challenges and promises afforded

by emerging technologies and to engage in deliberate thinking about the critical aspects of these emerging technologies that are drastically reshaping education. The Handbook of Research on Global Education and the Impact of Institutional Policies on Educational Technologies deepens this discussion of emerging technologies in educational contexts and is centered at the intersection of educational technology, learning sciences, and socio-cultural theories. This book engages a critical conversation that will further the discussion about the pedagogical potential of emerging technologies in contemporary classrooms. Covering topics such as communication networks, online learning environments, and preservice teacher education, this text is an essential resource for educational professionals, preservice teachers, professors, teachers, students, and academicians.

Perspective, Pedagogy, and Practice Elsevier
This book conceptualizes the nature of mathematical modeling in the early grades from both teaching and learning perspectives. Mathematical modeling provides a unique opportunity to engage elementary students in the creative process of mathematizing their world. A diverse community of internationally known researchers and practitioners share studies that advance the field with respect to the following themes: The Nature of Mathematical Modeling in the Early Grades Content Knowledge and Pedagogy for Mathematical Modeling Student Experiences as Modelers Teacher Education and Professional Development in Modeling Experts in the field provide commentaries that extend and connect ideas presented across chapters. This book is an invaluable resource in illustrating what all young children can achieve with mathematical modeling and how we can support teachers and families in this important work.

Haptic Interaction Springer
An indispensable handbook for any teacher or lecturer looking for authoritative and practical guidance, this book is tailored to the key requirements of the field of engineering.

Understanding the Technical and the Social CRC Press
This volume investigates the challenges facing the Egyptian Northern coastal lakes, focusing on the impact of climate change, their biodiversity and sustainable management. Presenting up-to-date research, it covers the following topics: climate change and water quality modeling and their impacts on the sustainability of the lakes; the economic role of the lakes; the use of remote

sensing in monitoring; and the biodiversity of the lakes with detailed discussions. Further, management strategies for the sustainable development of these valuable resources are proposed to maintain the lakes sustainability. The book closes with a concise summary of the conclusions and recommendations presented in the preceding chapters. As such, it offers an invaluable resource for the academic community and postgraduate students, as well as for environmental managers and policymakers.

Climate Change and Biodiversity Informing Science

As web applications play a vital role in our society, social media has emerged as an important tool in the creation and exchange of user-generated content and social interaction. The benefits of these services have entered in the educational areas to become new means by which scholars communicate, collaborate, and teach. Social Media and the New Academic Environment: Pedagogical Challenges provides relevant theoretical frameworks and the latest research on social media and its challenges in the educational context. This book is essential for professionals aiming to improve their understanding of social media at different levels of education, as well as researchers in the fields of e-learning, educational science, information and communication sciences, and much more.

Computerworld Allied Publishers

The book is a textbook for students of engineering, physics, mathematics, and computer science. The material is arranged in seven independent parts: ordinary differential equations, linear algebra, vector calculus, Fourier analysis, partial differential equations, complex analysis, numerical methods, optimization, graphs, probability, and statistics.

Programmes And Problems MDPI

"A 22-volume, highly illustrated, A-Z general encyclopedia for all ages, featuring sections on how to use World Book, other research aids, pronunciation key, a student guide to better writing, speaking, and research skills, and comprehensive index"--

Synergetic Engineering Macmillan International Higher Education

This timely volume brings together a range of international scholars to analyse cultural, political, and individual factors which contribute to the continued global issue of female underrepresentation in STEM study and careers. Offering a

comparative approach to examining gender equity in STEM fields across countries including the UK, Germany, the United States, Hong Kong, Taiwan, South Africa, and China, the volume provides a thematic breakdown of institutional trends and national policies that have successfully improved gender equity in STEM at institutions of higher education. Offering case studies that demonstrate how policies interact with changing social and cultural norms, and impact women's choices and experiences in relation to the uptake and continuation of STEM study at the undergraduate level, the volume highlights new directions for research and policy to promote gender equity in STEM at school, university, and career levels. Contributing to the United Nations' (UN) 2030 Agenda for Sustainable Development, this text will benefit researchers, academics, and educators with an interest in science education, higher education, and gender equity in STEM fields. The text will also support further discussion and reflection around multicultural education, educational policy and politics, and the sociology of education more broadly.

Encyclopedia of Biomedical Engineering Psychology Press
This book presents the proceedings of the 2019 International Scientific and Technical Conference "Integrated Computer Technologies in Mechanical Engineering" – Synergetic Engineering (ICTM' 2019). The ICTM was established by the National Aerospace University "Kharkiv Aviation Institute" to bring together outstanding researchers and practitioners in the fields of information technology in the design and manufacture of engines, creation of rocket space systems, and aerospace engineering from around the globe all to share their knowledge and expertise. The ICTM'2019 conference was held in Kharkiv, Ukraine, on November 28–30, 2019. During the event, technical exchanges between the research communities took place in the form of keynote speeches, panel discussions, and special sessions. In addition, participants had the opportunity to forge new collaborations with their fellow researchers. ICTM'2019 received

172 submissions from various countries. This book features selected papers offering insights into the following topics: Information technology in the design and manufacture of engines; Information technology in the creation of rocket space systems; Aerospace engineering; Transport systems and logistics; Big data and data science; Nano-modeling; Artificial intelligence and smart systems; Networks and communication; Cyber-physical system and IoE; Software Engineering and IT-infrastructure. The organizers of ICTM 2019 made great efforts to ensure the success of this conference. The authors would like to thank all the members of the ICTM'2019 Advisory Committee for their guidance and advice, the members of Program Committee and Organizing Committee, the referees for their time and effort in reviewing and soliciting the papers, and the authors for their contributions to the formation of a common intellectual environment for solving relevant scientific problems. Also, the authors are grateful to Springer, especially Janusz Kacprzyk and Thomas Ditzinger as the editors responsible for the series "Advances in Intelligent System and Computing" for their valuable support in publishing these selected papers.

Proceedings of the International Conference RAEMP 2019 Springer Science & Business Media

Many potential applications of synthetic and systems biology are relevant to the challenges associated with the detection, surveillance, and responses to emerging and re-emerging infectious diseases. On March 14 and 15, 2011, the Institute of Medicine's (IOM's) Forum on Microbial Threats convened a public workshop in Washington, DC, to explore the current state of the science of synthetic biology, including its dependency on systems biology; discussed the different approaches that scientists are taking to engineer, or reengineer, biological systems; and discussed how the tools and approaches of synthetic and systems biology were being applied to mitigate the risks associated with emerging infectious diseases. The Science and Applications of

Synthetic and Systems Biology is organized into sections as a topic-by-topic distillation of the presentations and discussions that took place at the workshop. Its purpose is to present information from relevant experience, to delineate a range of pivotal issues and their respective challenges, and to offer differing perspectives on the topic as discussed and described by the workshop participants. This report also includes a collection of individually authored papers and commentary.

Ulrich's International Periodicals Directory Elsevier

Today, "all institutions of higher education almost everywhere in the world have been influenced by the concept of globalisation. The resulting policy changes in each nation state have, of course, reflected the degree of the impact of globalisation on the country, hence the changes in higher education." (Banya, 2005, p.147). This points to globalisation shaping knowledge production as well as the spread of intentional and continuous waves of innovation. The effects of globalisation on education can be seen through a) the changing paradigm from a closed system to a more open system, and b) the changing approach from a teacher-centred learning environment to that of a learner-centred environment. This changing approach culminates in the broader ideas of 'applied learning' through a) a productive view of learning versus reproductive view of learning, b) constructivist versus behaviourist, c) learning facilitation versus teaching, and d) process-based assessment versus outcome-based assessment (Rudic, 2016).

Modelling and Simulation in Science, Technology and Engineering Mathematics Springer Nature

This volume aims to provide the reader with a broad cross-section of empirical research being carried out into engineers at work. The chapters provide pointers to other relevant studies over recent decades an important aspect, we believe, because this area has only recently begun to coalesce as a field of study and up to now relevant empirical re