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Intelligent Systems for Engineering Design

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The Handbook of Research on STEM Education represents a groundbreaking and comprehensive synthesis of research and presentation of policy within the realm of science, technology, engineering, and mathematics (STEM) education. What distinguishes this Handbook from others is the nature of integration of the disciplines that is the founding premise for the work – all chapters in this book speak directly to the integration of STEM, rather than discussion of research within the individual content areas. The Handbook of Research on STEM Education explores the most pressing areas of STEM within an international context. Divided into six sections, the authors cover topics including: the nature of STEM, STEM learning, STEM pedagogy, curriculum and assessment, critical issues in STEM, STEM teacher education, and STEM policy and reform. The Handbook utilizes the lens of equity and access by focusing on STEM literacy, early childhood STEM, learners with disabilities, informal STEM, socio-scientific issues, race-related factors, gender equity, cultural-relevancy, and parental involvement. Additionally, discussion of STEM education policy in a variety of countries is included, as well as a focus on engaging business/industry and teachers in advocacy for STEM education. The Handbook's 37 chapters provide a deep and meaningful landscape of the implementation of STEM over the past two decades. As such, the findings that are presented within provide the reader with clear directions for future research into effective practice and supports for integrated STEM, which are grounded in the literature to date. This book explores the dynamic approach to student-centred learning known as project-based learning, or project work. It addresses both the concepts and practical application of project-based learning to enhance teaching and learning. It describes empirical case study research into the impact of research-based project work on independent learning for academically-able secondary school students at Hwa Chong Institution, a premier independent school in Singapore. The research investigated how students dealt with an innovative project-based learning curriculum built on a social constructivist approach designed to foster independent learning attitudes. The students had to research and initiate their own projects, and see through the entire process with guidance from their teacher mentors. The case study findings give rich insights into student perspectives and experiences as they engage in projects and respond to real-life challenges and problems. A new theory of project-based learning is presented in the form of theoretical propositions. The research has implications for the professional development of teachers as project work mentors to

help prepare their students to be 'future-proof' in dealing with 21st century study, work and social challenges with confidence. The book highlights compelling reasons for schools to include some form of research-based project work within their curricula, thereby allowing students to engage in collaborative, authentic research. This proceeding represents state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Eight World Congress on Engineering Asset Management (WCEAM). The Proceedings of the WCEAM 2013 is an excellent reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering topics such as: 1. Asset condition monitoring and intelligent maintenance, 2. Asset data warehousing, data mining and fusion, 3. Asset performance and level-of-service models, 4. Design and life-cycle integrity of physical assets, 5. Deterioration and preservation models for assets, 6. Education and training in asset management, 7. Engineering standards in asset management, 8. Fault diagnosis and prognostics, 9. Financial analysis methods for physical assets, 10. Human dimensions in integrated asset management, 11. Information quality management, 12. Information systems and knowledge management, 13. Intelligent sensors and devices, 14. Maintenance strategies in asset management, 15. Optimisation decisions in asset management, 16. Risk management in asset management, 17. Strategic asset management, 18. Sustainability in asset management. King WONG served as Congress Chair for WCEAM 2013 and ICUMAS 2013 is the President of the Hong Kong Institute of Utility Specialists (HKIUS) and Convener of International Institute of Utility Specialists (IIUS). Peter TSE is the Director of the Smart Engineering Asset Management laboratory (SEAM) at the City University of Hong Kong and served as the Chair of WCEAM 2013 Organising Committee. Joseph MATHEW served as the Co-Chair of WCEAM 2013 is also WCEAM's General Chair. He is the Chief Executive Officer of Asset Institute, Australia. Researchers in the evolving fields of artificial intelligence and information systems are constantly presented with new challenges. *Artificial Intelligence and Integrated Intelligent Information Systems: Emerging Technologies and Applications* provides both researchers and professionals with the latest knowledge applied to customized logic systems, agent-based approaches to modeling, and human-based models. *Artificial Intelligence and Integrated Intelligent Information Systems: Emerging Technologies and Applications* presents the recent advances in multi-mobile agent systems, the product development process, fuzzy logic systems, neural networks, and ambient intelligent environments among many other innovations in this exciting field. *Monolithic Microwave Integrated Circuit (MMIC)* is an electronic device that is widely used in all high frequency wireless systems. In developing MMIC as a product, understanding analysis and design techniques, modeling, measurement methodology, and current trends are essential. *Advances in Monolithic Microwave Integrated Circuits for Wireless Systems: Modeling and Design Technologies* is a central source of knowledge on MMIC development, containing research on theory, design, and practical approaches to integrated circuit devices. This book is of interest to researchers

in industry and academia working in the areas of circuit design, integrated circuits, and RF and microwave, as well as anyone with an interest in monolithic wireless device development. This book reviews a range of quantum phenomena in novel nanoscale transistors called FinFETs, including quantized conductance of 1D transport, single electron effect, tunneling transport, etc. The goal is to create a fundamental bridge between quantum FinFET and nanotechnology to stimulate readers' interest in developing new types of semiconductor technology. Although the rapid development of micro-nano fabrication is driving the MOSFET downscaling trend that is evolving from planar channel to nonplanar FinFET, silicon-based CMOS technology is expected to face fundamental limits in the near future. Therefore, new types of nanoscale devices are being investigated aggressively to take advantage of the quantum effect in carrier transport. The quantum confinement effect of FinFET at room temperatures was reported following the breakthrough to sub-10nm scale technology in silicon nanowires. With chapters written by leading scientists throughout the world, *Toward Quantum FinFET* provides a comprehensive introduction to the field as well as a platform for knowledge sharing and dissemination of the latest advances. As a roadmap to guide further research in an area of increasing importance for the future development of materials science, nanofabrication technology, and nano-electronic devices, the book can be recommended for Physics, Electrical Engineering, and Materials Science departments, and as a reference on micro-nano electronic science and device design. Offers comprehensive coverage of novel nanoscale transistors with quantum confinement effect Provides the keys to understanding the emerging area of the quantum FinFET Written by leading experts in each research area Describes a key enabling technology for research and development of nanofabrication and nanoelectronic devices The book is a collection of best papers presented in the Second International Conference on Microelectronics Electromagnetics and Telecommunication (ICMEET 2016), an international colloquium, which aims to bring together academic scientists, researchers and research scholars to discuss the recent developments and future trends in the fields of microelectronics, electromagnetics and telecommunication. Microelectronics research investigates semiconductor materials and device physics for developing electronic devices and integrated circuits with data/energy efficient performance in terms of speed, power consumption, and functionality. The book discusses various topics like analog, digital and mixed signal circuits, bio-medical circuits and systems, RF circuit design, microwave and millimeter wave circuits, green circuits and systems, analog and digital signal processing, nano electronics and giga scale systems, VLSI circuits and systems, SoC and NoC, MEMS and NEMS, VLSI digital signal processing, wireless communications, cognitive radio, and data communication. The second edition of this comprehensive text contains extensive revisions to reflect recent advances in technology and in circuit design practices. Recognizing that the area of digital integrated circuit design is evolving at an increasingly fast pace, every effort has been made to present state-of-the-art material on all subjects covered in the book. This book is primarily designed as a comprehensive

text for senior level and first-year graduate level digital circuit design classes, as well as a reference for practicing engineers in the areas of IC design and VLSI. This book provides analysis and discusses the design of various MOSFET technologies which are used for the design of Double-Pole Four-Throw (DP4T) RF switches for next generation communication systems. The authors discuss the design of the (DP4T) RF switch by using the Double-Gate (DG) MOSFET, as well as the Cylindrical Surrounding double-gate (CSDG) MOSFET. The effect of HFO₂ (high dielectric material) in the design of DG MOSFET and CSDG MOSFET is also explored. Coverage includes comparison of Single-gate MOSFET and Double-gate MOSFET switching parameters, as well as testing of MOSFETs parameters using image acquisition. This book discusses new techniques for detecting, controlling, and exploiting the impacts of temperature variations on nanoscale circuits and systems. A new sensor system is described that can determine the temperature dependence as well as the operating temperature to improve system reliability. A new method is presented to control a circuit's temperature dependence by individually tuning pull-up and pull-down networks to their temperature-insensitive operating points. This method extends the range of supply voltages that can be made temperature-insensitive, achieving insensitivity at nominal voltage for the first time. This book constitutes the thoroughly refereed post-workshop proceedings at PAKDD Workshops 2018, held in conjunction with the 22nd Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2018, in Melbourne, Australia, in June 2018. The 32 revised papers presented were carefully reviewed and selected from 46 submissions. The workshops affiliated with PAKDD 2018 include: Workshop on Big Data Analytics for Social Computing, BDASC, Australasian Workshop on Machine Learning for Cyber-security, ML4Cyber, Workshop on Biologically-inspired Techniques for Knowledge Discovery and Data Mining, BDM, Pacific Asia Workshop on Intelligence and Security Informatics, PAISI, and Workshop on Data Mining for Energy Modeling and Optimization, DaMEMO. This book is volume III of a series of books on silicon photonics. It reports on the development of fully integrated systems where many different photonics component are integrated together to build complex circuits. This is the demonstration of the fully potentiality of silicon photonics. It contains a number of chapters written by engineers and scientists of the main companies, research centers and universities active in the field. It can be of use for all those persons interested to know the potentialities and the recent applications of silicon photonics both in microelectronics, telecommunication and consumer electronics market. Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and

emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students. The International Conference on Computational Fluid Dynamics is held every two years and brings together physicists, mathematicians and engineers to review and share recent advances in mathematical and computational techniques for modeling fluid flow. The proceedings of the 2010 conference (ICCFD6) held in St Petersburg, Russia, contain a selection of refereed contributions and are meant to serve as a source of reference for all those interested in the state of the art in computational fluid dynamics. In response to tremendous growth and new technologies in the semiconductor industry, this volume is organized into five, information-rich sections. Digital Design and Fabrication surveys the latest advances in computer architecture and design as well as the technologies used to manufacture and test them. Featuring contributions from leading experts, the book also includes a new section on memory and storage in addition to a new chapter on nonvolatile memory technologies. Developing advanced concepts, this sharply focused book— Describes new technologies that have become driving factors for the electronic industry Includes new information on semiconductor memory circuits, whose development best illustrates the phenomenal progress encountered by the fabrication and technology sector Contains a section dedicated to issues related to system power consumption Describes reliability and testability of computer systems Pinpoints trends and state-of-the-art advances in fabrication and CMOS technologies Describes performance evaluation measures, which are the bottom line from the user's point of view Discusses design techniques used to create modern computer systems, including high-speed computer arithmetic and high-frequency design, timing and clocking, and PLL and DLL design This book gathers high-quality research papers presented at the First International Conference, ICSC 2019, organised by THDC Institute of Hydropower Engineering and Technology, Tehri, India, from 20 to 21 April 2019. The book is divided into two major sections – Intelligent Computing and Smart Communication. Some of the areas covered are Parallel and Distributed Systems, Web Services, Databases and Data Mining Applications, Feature Selection and Feature Extraction, High-Performance Data Mining Algorithms, Knowledge Discovery, Communication Protocols and Architectures, High-speed Communication, High-Voltage Insulation Technologies, Fault Detection and Protection, Power System Analysis, Embedded Systems, Architectures, Electronics in Renewable Energy, CAD for VLSI, Green Electronics, Signal and Image Processing, Pattern Recognition and Analysis, Multi-Resolution Analysis and Wavelets, 3D and Stereo Imaging, and Neural Networks. Comprehensive Medicinal Chemistry III provides a contemporary and forward-looking critical analysis and summary of recent developments, emerging trends, and recently identified new

areas where medicinal chemistry is having an impact. The discipline of medicinal chemistry continues to evolve as it adapts to new opportunities and strives to solve new challenges. These include drug targeting, biomolecular therapeutics, development of chemical biology tools, data collection and analysis, in silico models as predictors for biological properties, identification and validation of new targets, approaches to quantify target engagement, new methods for synthesis of drug candidates such as green chemistry, development of novel scaffolds for drug discovery, and the role of regulatory agencies in drug discovery. Reviews the strategies, technologies, principles, and applications of modern medicinal chemistry Provides a global and current perspective of today's drug discovery process and discusses the major therapeutic classes and targets Includes a unique collection of case studies and personal assays reviewing the discovery and development of key drugs This is an open access book.

Uncovering the Languages, Sciences, and Teaching profession Practice during the Covid-19 Pandemic. This volume represents the proceedings of the 3rd Eurasian Conference on Educational Innovation 2020 (ECEI 2020). This conference is organized by the International Institute of Knowledge Innovation and Invention (IIKII), and was held on February 5-7, 2020 in Hanoi, Vietnam. ECEI 2020 provides a unified communication platform for researchers in a range of topics in education innovation and other related fields. This proceedings volume enables interdisciplinary collaboration of science and engineering technologists. It is a fine starting point for establishing an international network in the academic and industrial fields. This book presents cutting-edge research on innovative human systems integration and human-machine interaction, with an emphasis on artificial intelligence and automation, as well as computational modeling and simulation. It covers a wide range of applications in the areas of design, construction and operation of products, systems and services, and discusses the human factors in a wide range of settings. Gathering the proceedings of the 3rd International Conference on Intelligent Human Systems Integration (IHSI 2020), held on February 19-21, 2020, in Modena, Italy, the book's goal is to advance the theory and applications of artificial cognitive systems and improve human-artificial systems collaboration. Special emphasis is placed on automotive design, autonomous vehicles and the applications of artificial intelligence. The book offers a timely survey and source of inspiration for human factors engineers, automotive engineers, IT developers and UX designers who are working to shape the future of automated intelligent systems. The book provides insights of International Conference in Communication, Devices and Networking (ICCDN 2017) organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India during 3 – 4 June, 2017. The book discusses latest research papers presented by researchers, engineers, academicians and industry professionals. It also assists both novice and experienced scientists and developers, to explore newer scopes, collect new ideas and establish new cooperation between research groups and exchange ideas, information, techniques and applications in the field of electronics, communication, devices and networking. Especially in industrial

countries the portion of elderly people is growing in many societies. Their needs are more intensified than the demands of younger people in many aspects. Companies need the right tools (e.g. market research methods for elderly people) to detect these needs, preferences, and demands of elderly people. Samah Abu-Assab verifies two existing research methods and suggests a new one for determining the preferences of elderly people. The new method seems to be promising and adequate for the elderly target group. Electronics: Basic, Analog, and Digital with PSpice does more than just make unsubstantiated assertions about electronics. Compared to most current textbooks on the subject, it pays significantly more attention to essential basic electronics and the underlying theory of semiconductors. In discussing electrical conduction in semiconductors, the author addresses the important but often ignored fundamental and unifying concept of electrochemical potential of current carriers, which is also an instructive link between semiconductor and ionic systems at a time when electrical engineering students are increasingly being exposed to biological systems. The text presents the background and tools necessary for at least a qualitative understanding of new and projected advances in microelectronics. The author provides helpful PSpice simulations and associated procedures (based on schematic capture, and using OrCAD® 16.0 Demo software), which are available for download. These simulations are explained in considerable detail and integrated throughout the book. The book also includes practical, real-world examples, problems, and other supplementary material, which helps to demystify concepts and relations that many books usually state as facts without offering at least some plausible explanation. With its focus on fundamental physical concepts and thorough exploration of the behavior of semiconductors, this book enables readers to better understand how electronic devices function and how they are used. The book's foreword briefly reviews the history of electronics and its impact in today's world. ***Classroom Presentations are provided on the CRC Press website. Their inclusion eliminates the need for instructors to prepare lecture notes. The files can be modified as may be desired, projected in the classroom or lecture hall, and used as a basis for discussing the course material.*** Linguistic research and language teaching have generally been viewed as two separate types of academic endeavor. While linguists have been preoccupied with pattern finding and theory building, language teachers often encounter issues that are not readily addressed by theoretical linguistic research. This collection, with eleven papers touching upon a wide range of issues, stands out as one of the rare concerted efforts toward a meaningful integration of the two endeavors. Subject matters include tone, stress, word structure, grammatical categories (e.g. classifiers), syntactic structures (including argument structure), discourse particles, implicit and explicit knowledge, conversational repair, and learner corpus. With a diverse range of theoretical orientations, this collection serves to showcase some of the productive ways to create synergy between Chinese linguistic research and language education. This book presents select and peer-reviewed proceedings of the International Conference on Smart Communication and Imaging Systems (MedCom 2020). The contents explore the recent technological

advances in the field of next generation communication systems and latest techniques for image processing, analysis and their related applications. The topics include design and development of smart, secure and reliable future communication networks; satellite, radar and microwave techniques for intelligent communication. The book also covers methods and applications of GIS and remote sensing; medical image analysis and its applications in smart health. This book can be useful for students, researchers and professionals working in the field of communication systems and image processing. Physical Design for 3D Integrated Circuits reveals how to effectively and optimally design 3D integrated circuits (ICs). It also analyzes the design tools for 3D circuits while exploiting the benefits of 3D technology. The book begins by offering an overview of physical design challenges with respect to conventional 2D circuits, and then each chapter delivers an in-depth look at a specific physical design topic. This comprehensive reference: Contains extensive coverage of the physical design of 2.5D/3D ICs and monolithic 3D ICs Supplies state-of-the-art solutions for challenges unique to 3D circuit design Features contributions from renowned experts in their respective fields Physical Design for 3D Integrated Circuits provides a single, convenient source of cutting-edge information for those pursuing 2.5D/3D technology. This volume includes extended and revised versions of a set of selected papers from the 2011 2nd International Conference on Education and Educational Technology (EET 2011) held in Chengdu, China, October 1-2, 2011. The mission of EET 2011 Volume 2 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of education management, education theory and education application to disseminate their latest research results and exchange views on the future research directions of these fields. 133 related topic papers were selected into this volume. All the papers were reviewed by 2 program committee members and selected by the volume editor Prof. Yuanzhi Wang, from Intelligent Information Technology Application Research Association, Hong Kong. The conference will bring together leading researchers, engineers and scientists in the domain of interest. We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the education management, education theory and education application. "This book aims to describe recent findings and emerging techniques that use intelligent systems (particularly integrated and hybrid paradigms) in engineering design, and examples of applications. The goal is to take a snapshot of progress relating to research into systems for supporting design and to disseminate the way in which recent developments in integrated, knowledge-intensive, and computational AI techniques can improve and enhance such support. The selected articles provide an integrated, holistic perspective on this complex set of challenges and provide rigorous research results. The focus of this publication is on the integrated intelligent methodologies, frameworks and systems for supporting engineering design activities. The subject pushes the boundaries of the traditional topic of engineering design into new areas. The book is of interest to researchers, graduate students and practicing engineers involved in engineering design and applications using integrated

intelligent techniques. In addition, managers and others can use it to obtain an overview of the subject, and gain a view about the applicability of this technology to their business. As AI and intelligent systems technologies are fast evolving, the editors hope that this book can serve as a useful insight to the readers on the state-of-the-art applications and developments of such techniques at the time of compilation." Offers comprehensive coverage of digital CMOS circuit design, as well as addressing technology issues highlighted by the widespread use of nanometer-scale CMOS technologies. "3-Dimensional VLSI: A 2.5-Dimensional Integration Scheme" elaborates the concept and importance of 3-Dimensional (3-D) VLSI. The authors have developed a new 3-D IC integration paradigm, so-called 2.5-D integration, to address many problems that are hard to resolve using traditional non-monolithic integration schemes. The book also introduces major 3-D VLSI design issues that need to be solved by IC designers and Electronic Design Automation (EDA) developers. By treating 3-D integration in an integrated framework, the book provides important insights for semiconductor process engineers, IC designers, and those working in EDA R&D. Dr. Yangdong Deng is an associate professor at the Institute of Microelectronics, Tsinghua University, China. Dr. Wojciech P. Maly is the U. A. and Helen Whitaker Professor at the Department of Electrical and Computer Engineering, Carnegie Mellon University, USA.

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