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Open Source Technology: Concepts, Methodologies, Tools, and Applications IGI Global

Information Systems and Technology for Organizational Agility, Intelligence, and Resilience IGI Global

Advanced Geoscience Remote Sensing IGI Global

This Three-Volume-Set constitutes the refereed proceedings of the Second International Conference on Software Engineering and Computer Systems, ICSECS 2011, held in Kuantan, Malaysia, in June 2011. The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on software engineering; network; bioinformatics and e-health; biometrics technologies; Web engineering; neural network; parallel and distributed; e-learning; ontology; image processing; information and data management; engineering; software security; graphics and multimedia; databases; algorithms; signal processing; software design/testing; e- technology; ad hoc networks; social networks; software process modeling; miscellaneous topics in software engineering and computer systems.

Analyzing the Impacts of Industry 4.0 in Modern Business Environments IGI Global

The implementation of teleworking has enhanced the workforce and provided more flexible work environments. This not only leads to more productive workers, but it allows for a more diverse labor force. Remote Work and Collaboration: Breakthroughs in Research and Practice examines the benefits and challenges of working with telecommuting associates in the modern work environment. Including innovative studies on unified communications, data sharing, and job satisfaction, this multi-volume book is an ideal source for academicians, scientists, business entrepreneurs, practitioners, managers, and policy makers actively involved in the contemporary business industry.

**Software Engineering and Computer Systems, Part III** IGI Global

Technology Diffusion and Adoption: Global Complexity, Global Innovation discusses the emerging topics of information technology and the IT based solutions in global and multi-cultural environments. This comprehensive collection addresses the aspects of innovation diffusion in the field of business computing technologies and is essential for researchers, practitioners, academicians and educators all over the world.

*Information Systems and Technology for Organizational Agility, Intelligence, and Resilience* IGI Global

Nanoelectronics are a diverse set of materials and devices that are so small that quantum mechanics need to be applied to their function. The possibilities these devices present outweigh the difficulties associated with their development, as biosensors and similar devices have the potential to vastly improve our technological reach. The Handbook of Research on Nanoelectronic Sensor Modeling and Applications begins with an introduction of the fundamental concepts of nanoelectronic sensors, then proceeds to outline in great detail the concepts of nanoscale device modeling and nanoquantum fundamentals. Recent advances in the field such as graphene technology are discussed at length in this comprehensive handbook, ideal for electrical engineers, advanced engineering students, researchers, and academics.

*Operations and Service Management: Concepts, Methodologies, Tools, and Applications* IGI Global  
"This book provides an overview of current research and development activity in the area of learning designs"--Provided by publisher.

Informatics Engineering and Information Science, Part II IGI Global

Globalization, accelerated by information technologies, has increased the speed of business transactions and has reduced the distances between international businesses. This growth has transformed the realm of foreign investment in countries around the world, calling for a methodological approach to planning feasible capital investment proposals in general and foreign direct investment projects. Foreign Direct Investments: Concepts, Methodologies, Tools, and Applications is a vital reference source that explores the importance of global stocks to economic structures and explores the effects that these holdings have on the financial status of nations. It also provides a systems approach to investment projects in a globalized and open society. Highlighting a range of topics such as foreign direct investors, risk analysis, and sourcing strategies, this multi-volume book is ideally designed for business managers, executives, international companies, entrepreneurs, researchers,

academicians, graduate students, policymakers, investors, and project managers.

Ontology-Based Applications for Enterprise Systems and Knowledge Management IGI Global

Knowledge Management in Emerging Economies: Social, Organizational and Cultural Implementation seeks focuses on knowledge management theoretical models and empirical research findings for developing economies. This book specifically seeks to understand the social, organizational, and cultural implementation aspects of knowledge management in the context of developing economies, and to discuss issues, challenges, and trends surrounding this implementation.

Cloud Technology: Concepts, Methodologies, Tools, and Applications IGI Global

Advanced approaches to software engineering and design are capable of solving complex computational problems and achieving standards of performance that were unheard of only decades ago. Handbook of Research on Emerging Advancements and Technologies in Software Engineering presents a comprehensive investigation of the most recent discoveries in software engineering research and practice, with studies in software design, development, implementation, testing, analysis, and evolution. Software designers, architects, and technologists, as well as students and educators, will find this book to be a vital and in-depth examination of the latest notable developments within the software engineering community.

IGI Global

From driverless cars to vehicular networks, recent technological advances are being employed to increase road safety and improve driver satisfaction. As with any newly developed technology, researchers must take care to address all concerns, limitations, and dangers before widespread public adoption. Transportation Systems and Engineering: Concepts, Methodologies, Tools, and Applications addresses current trends in transportation technologies, such as smart cars, green technologies, and infrastructure development. This multivolume book is a critical reference source for engineers, computer scientists, transportation authorities, students, and practitioners in the field of transportation systems management.

Handbook of Research on Solar Energy Systems and Technologies IGI Global

It is necessary to understand the extent of pollution in the environment in terms of the air, water, and soil in order for both humans and animals to live healthier lives. Poor waste treatment or pollution monitoring can lead to massive environmental issues, such as diminishing valuable resources, and cause a significant negative impact on society. Solutions, such as reuse of waste and sustainable waste management, must be explored to prevent these adverse effects. The Handbook of Research on Resource Management for Pollution and Waste Treatment is a collection of innovative research that examines waste and pollution treatment methods that can be adopted at local and international levels and examines appropriate resource management strategies for environmentally related issues. Featuring coverage on a wide range of topics such as soil washing, bioremediation, and runoff handling, this book is ideally designed for environmentalists, engineers, waste management professionals, natural resource regulators, environmental policymakers, scientists, academicians, researchers, and students seeking current research on viable resource management methods for the regeneration of their immediate environment.

Research Anthology on Developing Effective Online Learning Courses IGI Global

"This book provides an opportunity for readers to clearly understand the notion of ontology engineering and the practical aspects of this approach in the domains of two interest areas: Knowledge Management Systems and Enterprise Systems"--

**Transportation Systems and Engineering: Concepts, Methodologies, Tools, and Applications** IGI Global

In order to improve competitiveness and performance, corporations must embrace advancements in digitalization. Successful implementation of knowledge management is a huge factor in corporate success. Analyzing the Impacts of Industry 4.0 in Modern Business Environments is a critical scholarly publication that explores digital transformation in business environments and the requirement for not only a substantial management change plan but equally the two essential components of knowledge management: knowledge sharing and knowledge transfer. Featuring a broad range of topics such as strategic planning, knowledge transfer, and cybersecurity risk management, this book is geared toward researchers, academicians, and students seeking current and relevant research on organizational knowledge intensity and monitoring of knowledge management development.

Critical Socio-Technical Issues Surrounding Mobile Computing IGI Global

The infusion of technology into curriculum influences the methods and techniques used to

educate the student population. By integrating effective technology in education, teachers are provided with a better opportunity to adapt and enhance the learning experience for students from various backgrounds. *Diverse Learning Opportunities Through Technology-Based Curriculum Design* provides innovative insights into the development and advancement of online instruction and educational technology to engage students from diverse backgrounds. The content within this publication addresses academic performance, technology integration, and online learning. It is geared towards educators, educational software developers, instructional designers, and researchers, and it covers topics centered on the methods to adjust, adapt, and implant the newest technology into contemporary curriculum.

*Student Culture and Identity in Higher Education* IGI Global

The last ten years have seen rapid advances in nanoscience and nanotechnology, allowing unprecedented manipulation of the nanoscale structures controlling solar capture, conversion, and storage. Filled with cutting-edge solar energy research and reference materials, the *Handbook of Research on Solar Energy Systems and Technologies* serves as a one-stop resource for the latest information regarding different topical areas within solar energy. This handbook will emphasize the application of nanotechnology innovations to solar energy technologies, explore current and future developments in third generation solar cells, and provide a detailed economic analysis of solar energy applications.

*Diverse Learning Opportunities Through Technology-Based Curriculum Design* IGI Global

The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries. Challenges associated with the analysis, security, sharing, storage, and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data. The *Handbook of Research on Big Data Storage and Visualization Techniques* is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields. Featuring coverage on a broad range of topics, such as architecture patterns, programing systems, and computational energy, this publication is geared towards professionals, researchers, and students seeking current research and application topics on the subject.

***Precision Agriculture Technologies for Food Security and Sustainability*** IGI Global

Precision agriculture integrates new technologies with the agronomic experience to intelligently manage the high spatial variability of all agricultural variables and the time scales at which these variables change. The right application of this approach increases the size and quality of the agricultural production; saves resources; improves environmental quality; helps to achieve self-sufficiency, food security, and agricultural sustainability; increases exports; and more. *Precision Agriculture Technologies for Food Security and Sustainability* is an essential reference source that compiles a comprehensive, multidisciplinary review of current research in the field of precision agriculture. It also discusses cutting-edge tools and models that can help facilitate and improve the systems implementation. Featuring coverage of a wide range of topics including agronomy, public policy, and internet of things, this book is ideally designed for agriculturalists, government officials, economists, environmentalists, academicians, researchers, students, and engineers in the fields of electronics, ICT, and agriculture.

***Handbook of Research on Progressive Trends in Wireless Communications and Networking*** IGI Global

The pervasiveness of and universal access to modern Information and Communication Technologies has enabled a popular new paradigm in the dissemination of information, art, and ideas. Now, instead of relying on a finite number of content providers to control the flow of information, users can generate and disseminate their own content for a wider audience. *Open Source Technology: Concepts, Methodologies, Tools, and Applications* investigates examples and methodologies in user-generated and freely-accessible content available through electronic and online media. With applications in education, government, entertainment, and more, the technologies explored in these volumes will provide a comprehensive reference for web designers, software developers, and practitioners in a wide variety of fields and disciplines.

*Handbook of Research on Recent Developments in Electrical and Mechanical Engineering* Springer

"This book brings together advanced research on diverse topics in wireless communications and networking, including the latest developments in broadband technologies, mobile communications, wireless sensor networks, network security, and cognitive radio networks"--  
*Outcome-Based Science, Technology, Engineering, and Mathematics Education: Innovative Practices* IGI Global

Knowledge of scientific and technological developments, and the flexible communication and decision making, knowledge sharing, and collaboration that stem from them, can enable organizations and individuals to be successful and viable competitors in today's global economy. *Information Systems and Technology for Organizational Agility, Intelligence, and Resilience* aims to advise and support organizational agents who want ensure success in terms of financial, social, and environmental aspects, as well as in the aspect of human development, in a more sustainable way. The premier reference work provides examples of conceptual research, methodologies, empirical cases, and success cases for academics, researchers, intermediaries, and organizations looking to use information