

## International Journal Of Computer Science

This book equips readers with the knowledge, insights and key capabilities to understand and practice business activities from ethical and sustainable vantage points. In our interconnected global business environment, the impacts of business activities are under increased ethical scrutiny from a wide range of stakeholders. Written from an international perspective, this book introduces the theory and practice of ethical and sustainable business, focusing in particular on eco-environmental sustainability, intergenerational responsibilities, current disruptive technologies, and intercultural values of the business community and consumers. Written by an expert author who also brings to the fore non-Western concepts and themes, this book: features positive case studies, as well as transferrable and applicable key insights from such cases; highlights the importance of taking cultural differences into account; takes a transdisciplinary approach which considers findings from research fields including conceptual and empirical business ethics, behavioral economics, ecological economics, environmental ethics, and the philosophy of culture; weaves in pedagogical features throughout, including up-to-date case studies, study questions, thought experiments, links to popular movies, and key takeaways. Written in an accessible and student-friendly manner, this book will be of great interest to students of business ethics, environmental ethics, applied ethics, and sustainable development, as well as business practitioners striving toward ethical, sustainable, and responsible business practice.

This book constitutes the refereed proceedings of the 17th Conference on Artificial Intelligence in Medicine, AIME 2019, held in Poznan, Poland, in June 2019. The 22 revised full and 31 short papers presented were carefully reviewed and selected from 134 submissions. The papers are organized in the following topical sections: deep learning; simulation; knowledge representation; probabilistic models; behavior monitoring; clustering, natural language processing, and decision support; feature selection; image processing; general machine learning; and unsupervised learning.

This book presents original research works by researchers, engineers and practitioners in the field of artificial intelligence and cognitive computing. The book is divided into two parts, the first of which focuses on artificial intelligence (AI), knowledge representation, planning, learning, scheduling, perception-reactive AI systems, evolutionary computing and other topics related to intelligent systems and computational intelligence. In turn, the second part focuses on cognitive computing, cognitive science and cognitive informatics. It also discusses applications of cognitive computing in medical informatics, structural health monitoring, computational intelligence, intelligent control systems, bio-informatics, smart manufacturing, smart grids, image/video processing, video analytics, medical image and signal processing, and knowledge engineering, as well as related applications.

The International Conference on Informatics and Management Science (IMS) 2012 will be held on November 16-19, 2012, in Chongqing, China, which is organized by Chongqing Normal University, Chongqing University, Shanghai Jiao Tong University, Nanyang Technological University, University of Michigan, Chongqing University of Arts and Sciences, and sponsored by National Natural Science Foundation of China (NSFC). The objective of IMS 2012 is to facilitate an exchange of information on best practices for the latest research advances in a range of areas. Informatics and Management Science contains over 600 contributions to suggest and inspire solutions and methods drawing from multiple disciplines including: Computer Science Communications and Electrical Engineering Management Science Service Science Business Intelligence As organizations, businesses, and other institutions work to move forward during a new era of ubiquitous modern technology, new computing and technology implementation strategies are necessary to harness the shared knowledge of individuals to advance their organizations as a whole. Intelligent and Knowledge-Based Computing for Business and Organizational Advancements examines the emerging computing paradigm of Collective Intelligence (CI). The global contributions contained in this publication will prove to be essential to both researchers and practitioners in the computer and information science communities as these populations move toward a new period of fully technology-integrated business.

This book constitutes the refereed post-conference proceedings of the Second International Conference on Cyber Security and Computer Science, ICONCS 2020, held in Dhaka, Bangladesh, in February 2020. The 58 full papers were carefully reviewed and selected from 133 submissions. The papers detail new ideas, inventions, and application experiences to cyber security systems. They are organized in topical sections on optimization problems; image steganography and risk analysis on web applications; machine learning in disease diagnosis and monitoring; computer vision and image processing in health care; text and speech processing; machine learning in health care; blockchain applications; computer vision and image processing in health care; malware analysis; computer vision; future technology applications; computer networks; machine learning on imbalanced data; computer security; Bangla language processing.

The widespread adoption of smartphones has led to an explosion of mobile social media data, more than a billion messages per day that continuously track location, content, and time. Social Media in the Contemporary City focuses on the effects of social media on local communities and urban space in a variety of political and economic settings related to social activism, informal economic activity, public art, and global extremism. The book covers events ranging from Banksy art installations, mobile food trucks, and underground restaurants, to a Black Lives Matter protest, the Christchurch mosque shootings, and the Pulse nightclub shooting. The interplay between urban space, local community, and social media in each case study requires diverse methodologies that are both computational (i.e. machine learning, social network analysis, and natural language processing) and ethnographic (i.e. semi-

structured interviews, thematic analysis, and site analysis). The book views social media not as a replacement for the local community or urban space but rather as a translation of the uses and meanings of all three realms. The book will be of interest to students, researchers, and instructors in a number of disciplines including urban design/planning, media studies, geography, and communications.

This revised textbook motivates and illustrates the techniques of applied probability by applications in electrical engineering and computer science (EECS). The author presents information processing and communication systems that use algorithms based on probabilistic models and techniques, including web searches, digital links, speech recognition, GPS, route planning, recommendation systems, classification, and estimation. He then explains how these applications work and, along the way, provides the readers with the understanding of the key concepts and methods of applied probability. Python labs enable the readers to experiment and consolidate their understanding. The book includes homework, solutions, and Jupyter notebooks. This edition includes new topics such as Boosting, Multi-armed bandits, statistical tests, social networks, queuing networks, and neural networks. The companion website now has many examples of Python demos and also Python labs used in Berkeley.

Showcases techniques of applied probability with applications in EE and CS; Presents all topics with concrete applications so students see the relevance of the theory; Illustrates methods with Jupyter notebooks that use widgets to enable the users to modify parameters.

Professional Counseling Excellence through Leadership and Advocacy provides readers with the knowledge, skills, and qualities to succeed as leaders and advocates throughout their careers. Edited by leaders in counselor education and endorsed by Chi Sigma Iota, this text places leadership and advocacy in a historical context while strengthening the foundational knowledge and skills counselors need. The new edition integrates the Multicultural and Social Justice Counseling Competencies (MSJCCs) and applies them to a variety of counseling settings at both local and state levels. Chapters also address leadership and design of effective counselor education programs, curricular implications, supervision and consultation, and research directions. The new edition is designed for counselor educators and supervisors and doctoral-level counselor education students who are studying leadership and advocacy as one of five core areas within the 2016 CACREP standards and for master's level students and practitioners who are growing their leadership and advocacy skills.

This book constitutes the proceedings of the 25th International Conference on Developments in Language Theory, DLT 2021, which was held in Porto, Portugal, during August 16-20, 2021. The conference took place in a hybrid format with both in-person and online participation. The 27 full papers included in these proceedings were carefully reviewed and selected from 48 submissions. The DLT conference series provides a forum for presenting current developments in formal languages and automata. Its scope is very general and includes, among others, the following topics and areas: grammars, acceptors and transducers for words, trees and graphs; algebraic theories of automata; algorithmic, combinatorial, and algebraic properties of words and languages; variable length codes; symbolic dynamics; cellular automata; polyominoes and multidimensional patterns; decidability questions; image manipulation and compression; efficient text algorithms; relationships to cryptography, concurrency,

complexity theory, and logic; bio-inspired computing; quantum computing. The book also includes 3 invited talks in full paper length.

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This book gathers a collection of high-quality peer-reviewed research papers presented at the 2nd International Conference on Data and Information Sciences (ICDIS 2019), held at Raja Balwant Singh Engineering Technical Campus, Agra, India, on March 29–30, 2019. In chapters written by leading researchers, developers, and practitioner from academia and industry, it covers virtually all aspects of computational sciences and information security, including central topics like artificial intelligence, cloud computing, and big data. Highlighting the latest developments and technical solutions, it will show readers from the computer industry how to capitalize on key advances in next-generation computer and communication technology.

This book addresses main issues concerned with the future learning, learning and academic analytics, virtual world and smart user interface, and mobile learning. This book gathers the newest research results of smart learning environments from the aspects of learning, pedagogies, and technologies in learning. It examines the advances in technology development and changes in the field of education that has been affecting and reshaping the learning environment. Then, it proposes that under the changed technological situations, smart learning systems, no matter what platforms (i.e., personal computers, smart phones, and tablets) they are running at, should be aware of the preferences and needs that their users (i.e., the learners and teachers) have, be capable of providing their users with the most appropriate services, helps to enhance the users' learning experiences, and to make the learning efficient.

Intelligent Decision Technologies (IDT) seeks an interchange of research on intelligent systems and intelligent technologies which enhance or improve decision making in industry, government and academia. The focus is interdisciplinary in nature, and includes research on all aspects of intelligent decision technologies, from fundamental development to the applied system. This volume represents leading research from the Third KES International Symposium on Intelligent Decision Technologies (KES IDT'11), hosted and organized by the University of Piraeus, Greece, in conjunction with KES International. The symposium was concerned with theory, design, development, implementation, testing and evaluation of intelligent decision systems. Topics include decision making theory, intelligent agents, fuzzy logic, multi-agent systems, Bayesian networks, optimization, artificial neural networks, genetic algorithms, expert systems, decision support systems, geographic information systems, case-based reasoning, time series, knowledge management systems, rough sets, spatial decision analysis, and

multi-criteria decision analysis. These technologies have the potential to revolutionize decision making in many areas of management, healthcare, international business, finance, accounting, marketing, military applications, ecommerce, network management, crisis response, building design, information retrieval, and disaster recovery for a better future. The symposium was concerned with theory, design, development, implementation, testing and evaluation of intelligent decision systems. Topics include decision making theory, intelligent agents, fuzzy logic, multi-agent systems, Bayesian networks, optimization, artificial neural networks, genetic algorithms, expert systems, decision support systems, geographic information systems, case-based reasoning, time series, knowledge management systems, rough sets, spatial decision analysis, and multi-criteria decision analysis. These technologies have the potential to revolutionize decision making in many areas of management, healthcare, international business, finance, accounting, marketing, military applications, ecommerce, network management, crisis response, building design, information retrieval, and disaster recovery for a better future.

The era of web technology has enabled information and application sharing through the Internet. The large amount of information on the Internet, the large number of users, and the complexity of the application and information types have introduced new areas whereby these issues are explored and addressed.

The latest developments in computer science, theoretical software engineering, cognitive science, cognitive informatics, intelligence science, and the crystallization of accumulated knowledge by the fertilization of these areas, have led to the emergence of a transdisciplinary and convergence field known as software and intelligence sciences International Journal of Software Science and Computational Intelligence (IJSSCI) is a transdisciplinary, archived, and rigorously refereed journal that publishes and disseminates cutting-edge research findings and technological developments in the emerging fields of software science and computational intelligence, as well as their engineering applications.

This proceedings volume contains selected revised and extended research articles written by researchers who participated in the World Congress on Engineering and Computer Science 2015, held in San Francisco, USA, 21-23 October 2015. Topics covered include engineering mathematics, electrical engineering, circuits, communications systems, computer science, chemical engineering, systems engineering, manufacturing engineering, and industrial applications. The book offers the reader an overview of the state of the art in engineering technologies, computer science, systems engineering and applications, and will serve as an excellent reference work for researchers and graduate students working in these fields.

Business Model Innovation Process: Preparation, Organization and Management examines a range of critical questions that merit thoughtful interdisciplinary consideration, such as: Why do business models, and their innovation in particular, matter today? How can the process of business model innovation be understood, organized and managed adequately under increasingly volatile, uncertain, complex and ambiguous technological, business and geo-political conditions? What should decision-making and risk-management look like under these conditions, with managers whose rationality is bounded? The book offers a detailed account of the relatively unknown process of business model innovation by looking into the intersection of strategic,

operations and innovation management, organizational design, decision-making and performance management. In doing so, this book addresses fundamental issues, and introduces new ideas and theoretical perspectives. In envisioning and thinking about various potential scenarios of business model innovation and understanding how to organize for each of these under different conditions, the book provides original arguments and suggestions for practitioners. For that purpose, the book also offers many compelling real-life examples of business models and their innovation. Combining theory and practice, this book is an essential read for researchers and academics of business model innovation, as well as strategic management, digital transformation, innovation management and organizational change. It will also be of direct interest to practitioners and business leaders seeking new perspectives to increase their competitive advantage.

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This second and revised edition contains a detailed introduction to the key classes of intelligent data analysis methods. The twelve coherently written chapters by leading experts provide complete coverage of the core issues. The first half of the book is devoted to the discussion of classical statistical issues. The following chapters concentrate on machine learning and artificial intelligence, rule induction methods, neural networks, fuzzy logic, and stochastic search methods. The book concludes with a chapter on visualization and an advanced overview of IDA processes.

Computers are a fundamentally important tool in sport science research, sports performance analysis and, increasingly, in coaching and education programmes in sport. This book defines the field of 'sport informatics', explaining how computer science can be used to solve sport-related problems, in both research and applied aspects. Beginning with a clear explanation of the functional principles of hardware and software, the book examines the key functional areas in which computer science is employed in sport, including: knowledge discovery and database development data acquisition, including devices for measuring performance data motion tracking and analysis systems modelling and simulation match analysis systems e-learning and multimedia in sports education Bridging the gap between theory and practice, this book is important reading for any student, researcher or practitioner working in sport science, sport performance analysis, research methods in sport, applied computer science or informatics.

Natural Computing is the field of research that investigates both human-designed computing inspired by nature and computing taking place in nature, i.e., it investigates models and computational techniques inspired by nature and also it investigates phenomena taking place in nature in terms of information processing. Examples of the first strand of research covered by the handbook include neural computation inspired by the functioning of the brain; evolutionary computation inspired by Darwinian evolution of species; cellular automata inspired by intercellular communication; swarm intelligence inspired by the behavior of groups of organisms; artificial immune systems inspired by the natural immune system; artificial life systems inspired by the properties of natural life in general; membrane computing inspired by the compartmentalized ways in which cells process information; and amorphous computing

inspired by morphogenesis. Other examples of natural-computing paradigms are molecular computing and quantum computing, where the goal is to replace traditional electronic hardware, e.g., by bioware in molecular computing. In molecular computing, data are encoded as biomolecules and then molecular biology tools are used to transform the data, thus performing computations. In quantum computing, one exploits quantum-mechanical phenomena to perform computations and secure communications more efficiently than classical physics and, hence, traditional hardware allows. The second strand of research covered by the handbook, computation taking place in nature, is represented by investigations into, among others, the computational nature of self-assembly, which lies at the core of nanoscience, the computational nature of developmental processes, the computational nature of biochemical reactions, the computational nature of bacterial communication, the computational nature of brain processes, and the systems biology approach to bionetworks where cellular processes are treated in terms of communication and interaction, and, hence, in terms of computation. We are now witnessing exciting interaction between computer science and the natural sciences. While the natural sciences are rapidly absorbing notions, techniques and methodologies intrinsic to information processing, computer science is adapting and extending its traditional notion of computation, and computational techniques, to account for computation taking place in nature around us. Natural Computing is an important catalyst for this two-way interaction, and this handbook is a major record of this important development.

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