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An Advanced Treatise on Fixture Design and Planning Andrew Y C Nee 2004-11-06 Fixtures are an essential part of manufacturing production. This book covers computer-aided fixture design, fixture clamping synthesis and optimisation, workpiece-fixture interaction, intelligent fixture designed to integrate with processing equipment or machine tools so as to improve productivity and product quality, Internet-enabled fixture design and modular fixture database management. These are the emerging issues central to the development of computer-integrated manufacturing. Covering the established knowledge of fixture design automation and the niche areas of fixture system integration and Internet-enabled design, the book would be a prevalent reference for academics, manufacturing & industrial engineers, and a valuable text for engineering graduate students. Contents:Introduction to Fixture DesignComputer Aided Conceptual Fixture DesignFixture Clamping Layout SynthesisOptimisation of Dynamic Clamping Forces for a FixtureWorkpiece-Fixture InteractionAn Intelligent Fixturing SystemA Database Management System for Modular FixturesAn Internet-Enabled Smart Interactive Fixture Design System Readership: Researchers in the field of manufacturing engineering, tool designers, mechanical engineering graduate students. Keywords:Computer-Aided Fixture Design;Clamping Synthesis and Optimisation;Intelligent Fixture;Modular Fixtures;Fixture Database ManagementKey Features:This is the first available book in the market that discusses the issue of intelligent fixture as a solution to improving workpiece precision in addition to fixture design automation

Multikonferenz Wirtschaftsinformatik 2008 Martin Bichler 2008

Smart Intelligent Computing and Communication Technology V.D. Ambeth Kumar 2021-10-07 Recent developments in the fields of intelligent computing and communication have paved the way for the handling of current and upcoming problems and brought about significant technological advancements. This book presents the proceedings of IConIC 2021, the 4th International Conference on Intelligent Computing, held on 26 and 27 March 2021 in Chennai, India. The principle objective of the annual IConIC conference is to provide an international scientific forum where participants can exchange innovative ideas in relevant fields and interact in depth through discussion with their peer group. The theme of the 2021 conference and this book is 'Smart Intelligent Computing and Communication

Technology', and the 109 papers included here focus on the technological innovations and trendsetting initiatives in medicine, industry, education and security that are improving and optimizing business and technical processes and enabling inclusive growth. The papers are grouped under 2 headings: Evolution of Computing Intelligence; and Computing and Communication, and cover a broad range of intelligent-computing research and applications. The book provides an overview of the cutting-edge developments and emerging areas of study in the technological fields of intelligent computing, and will be of interest to researchers and practitioners from both academia and industry.

Computational Intelligence for Multimedia Big Data on the Cloud with Engineering Applications Arun Kumar Sangaiah 2018-08-21 Computational Intelligence for Multimedia Big Data on the Cloud with Engineering Applications covers timely topics, including the neural network (NN), particle swarm optimization (PSO), evolutionary algorithm (GA), fuzzy sets (FS) and rough sets (RS), etc. Furthermore, the book highlights recent research on representative techniques to elaborate how a data-centric system formed a powerful platform for the processing of cloud hosted multimedia big data and how it could be analyzed, processed and characterized by CI. The book also provides a view on how techniques in CI can offer solutions in modeling, relationship pattern recognition, clustering and other problems in bioengineering. It is written for domain experts and developers who want to understand and explore the application of computational intelligence aspects (opportunities and challenges) for design and development of a data-centric system in the context of multimedia cloud, big data era and its related applications, such as smarter healthcare, homeland security, traffic control trading analysis and telecom, etc. Researchers and PhD students exploring the significance of data centric systems in the next paradigm of computing will find this book extremely useful. Presents a brief overview of computational intelligence paradigms and its significant role in application domains Illustrates the state-of-the-art and recent developments in the new theories and applications of CI approaches Familiarizes the reader with computational intelligence concepts and technologies that are successfully used in the implementation of cloud-centric multimedia services in massive data processing Provides new advances in the fields of CI for bio-engineering application

Field Programmable Gate Arrays (FPGAs) II George Dekoulis 2020-09-09 This Edited Volume Field Programmable Gate Arrays (FPGAs) II is a collection of reviewed and relevant research chapters, offering a comprehensive overview of recent developments in the field of Computer and Information Science. The book comprises single chapters authored by various researchers and edited by an expert active in the Computer and Information Science research area. All chapters are complete in itself but united under a common research study topic. This publication aims at providing a thorough overview of the latest research efforts by international authors on Computer and Information Science, and open new possible research paths for further novel developments.

Special Issue on Computer Applications and Information Processing Technology 2014

Emerging Technologies in Intelligent Applications for Image and Video Processing Santhi, V. 2016-01-07 Image and Video Processing is an active area of research due to its potential applications for solving real-world problems. Integrating computational intelligence to analyze and interpret information from image and video technologies is an essential step to processing and applying multimedia data. Emerging Technologies in Intelligent Applications for Image and Video Processing presents the most current research relating to multimedia technologies including video and image restoration and enhancement as well as algorithms used for image and video compression,

indexing and retrieval processes, and security concerns. Featuring insight from researchers from around the world, this publication is designed for use by engineers, IT specialists, researchers, and graduate level students.

Informatics and Management Science II Wenjiang Du 2012-12-03 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 Management Science Service Science Business Intelligence Business Intelligence

Intelligence of Things: AI-IoT Based Critical-Applications and Innovations Fadi Al-Turjman 2021-10-28 This book presents recent technologies that explore artificial intelligence (AI) and its scope in Internet of Things (IoT) enabled areas for productivity and the betterment of society. The book aims at targeting audiences of several disciplines to share research, suggest solutions, and future trends in the field of AI using IoT. Rather than looking at the field from only a theoretical or only a practical perspective, this book unifies both aspects to give a holistic understanding of the AI paradigm for IoT. The book focuses on timely topics related to the field of AI enabled IoT applications at large. The book consists of four major parts: fundamentals, theoretical discussion, critical applications, and the learning algorithms. These contents shall include the basics, types, tools, and techniques of AI. Finally, applications of AI enabled IoT in several areas are presented including health, security, climate change, agricultural engineering, bioinformatics, biomedicine, smart applications, natural language processing, social and economic implications of AI enabled IoT, as well as robotics, sustainability, risk management, seismic data processing, smart grid management, text analysis, security, privacy, and ethics.

International Conference on Innovative Computing and Communications Ashish Khanna 2021-08-17 This book includes high-quality research papers presented at the Fourth International Conference on Innovative Computing and Communication (ICICC 2021), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on February 20–21, 2021. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Knowledge Management in Emerging Economies: Social, Organizational and Cultural Implementation Al-Shammari, Minwir 2010-09-30 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.

Cognitive Computing Using Green Technologies Asis Kumar Tripathy 2021-03-12 Cognitive Computing is a new topic which aims to simulate human thought processes using computers that self-learn through data mining, pattern recognition, and natural language processing. This book

focuses on the applications of Cognitive Computing in areas like Robotics, Blockchain, Deep Learning, and Wireless Technologies. This book covers the basics of Green Computing, discusses Cognitive Science methodologies in Robotics, Computer Science, Wireless Networks, and Deep Learning. It goes on to present empirical data and research techniques, modelling techniques and offers a data-driven approach to decision making and problem solving. This book is written for researchers, academicians, undergraduate and graduate students, and industry persons who are working on current applications of Cognitive Computing.

Grid and Cooperative Computing. Part 2 Minglu Li 2004-04-28 The two-volume set LNCS 3032 and LNCS 3033 constitute the thoroughly refereed post-proceedings of the Second International Workshop on Grid and Cooperative Computing, GCC 2003, held in Shanghai, China in December 2003. The 176 full papers and 173 poster papers presented were carefully selected from a total of over 550 paper submissions during two rounds of reviewing and revision. The papers are organized in topical sections on grid applications; peer-to-peer computing; grid architectures; grid middleware and toolkits; Web security and Web services; resource management, scheduling, and monitoring; network communication and information retrieval; grid QoS; algorithms, economic models, and theoretical models of the grid; semantic grid and knowledge grid; remote data access, storage, and sharing; and computer-supported cooperative work and cooperative middleware.

INTERVAL TYPE-2 FUZZY SETS AND INTERVAL NEUTROSOPHIC SETS IN INTELLIGENT SYSTEMS M. LATHA MAHESWARI M. In this thesis, interval type-2 fuzzy sets (IT2FSs) and interval neutrosophic sets (INSs) have been considered for all the proposed concepts. Fusion of information is an essential task to get the optimized solution for any real world problem. In this task, aggregation operators are playing an important role in all the fields. Since most of the realistic problems have uncertainty in nature,

one can use the logic of fuzzy and neutrosophic theory. For the entire proposed concepts interval based logic has been used as it handles more uncertainty.

Communications Technology and Computer Applications American School Health Association 2000

Computational Intelligence and Data Sciences Ayodeji Olalekan Salau 2022-03-11 This book presents futuristic trends in computational intelligence including algorithms as applicable to different application domains in health informatics covering bio-medical, bioinformatics, and biological sciences. Latest evolutionary approaches to solve optimization problems under biomedical engineering field are discussed. It provides conceptual framework with a focus on application of computational intelligence techniques in the domain of biomedical engineering and health informatics including real-time issues.

Handbook of Research on Scalable Computing Technologies Li, Kuan-Ching 2009-07-31 "This book presents, discusses, shares ideas, results and experiences on the recent important advances and future challenges on enabling technologies for achieving higher performance"--Provided by publisher.

International Journal of Computer Applications in Technology 1988

Customer Knowledge Management: People, Processes, and Technology Al-Shammari, Minwir 2009-03-31 "This book introduces an integrated approach to analyzing and building customer knowledge management (CKM) synergy from distinctive core advantages found in key organizational elements"--Provided by publisher.

Computer Applications in the Social Sciences Edward E. Brent 1990 Presenting an introduction to computing and advice on computer applications, this book examines hardware and software with respect to the needs of the social scientist. It offers a framework for the use of computers, with focus on the 'work station', the center of which is a personal computer connected to networks by a telephone-based modem.

Manufacturing and Engineering Technology (ICMET 2014) Ai Sheng 2014-11-24 Manufacturing and Engineering Technology brings together around 200 peer-reviewed papers presented at the 2014 International Conference on Manufacturing and Engineering Technology, held in San-ya, China, October 17-19, 2014.The main objective of these proceedings is to take the Manufacturing and Engineering Technology discussion a step further. Con

Implementing Computational Intelligence Techniques for Security Systems Design Albastaki, Yousif Abdullatif 2020-02-14 Recently, cryptology problems, such as designing good cryptographic systems and analyzing them, have been challenging researchers. Many algorithms that take advantage of approaches based on computational intelligence techniques, such as genetic algorithms, genetic programming, and so on, have been proposed to solve these issues. Implementing Computational Intelligence Techniques for Security Systems Design is an essential research book that explores the application of computational intelligence and other advanced techniques in information security, which will contribute to a better understanding of the factors that influence successful security systems design. Featuring a range of topics such as encryption, self-healing systems, and cyber fraud, this book is ideal for security analysts, IT specialists, computer engineers, software developers, technologists, academicians, researchers, practitioners, and students.

Knowledge Management Strategies: A Handbook of Applied Technologies Lytras, Miltiadis D. 2008-04-30 We recognize knowledge management as a socio-technical phenomenon where the basic social constructs such as person, team, and organization require support from information communication technology applications. In an era of business transition, the effective management of knowledge is proposed as a strategy that effectively utilizes organizational intangible assets. Knowledge Management Strategies: A

Handbook of Applied Technologies provides practical guidelines for the implementation of knowledge management strategies through the discussion of specific technologies and taxonomies of knowledge management applications. A critical mass of some of the most sought-after research of our information technology and business world, this book proves an essential addition to every reference library collection.

Serials in the British Library 1988

Information Technology and Computer Applications in Public Administration G. David Garson 1999-01-01 "Information Technology and Computer Applications in Public Administration: Issues and Trends constitutes a survey of many of the most important dimensions of managing information technology in the public sector. In Part I, chapters address general policy and administrative issues. The chapters of Part II represent applied information technology skills needed by public managers"--Provided by publisher.

Communications Technology and Computer Applications American School Health Association 2008

The Shock and Vibration Digest 1994

Informatics and Management Science VI Wenjiang Du 2016-05-01 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"

Computer Applications in Pharmaceutical Research and Development Sean Ekins 2006-07-11 A unique, holistic approach covering all functions and phases of pharmaceutical research and development While there are a number of texts dedicated to individual aspects of pharmaceutical research and development, this unique contributed work takes a holistic and integrative approach to the use of computers in all phases of drug discovery, development, and marketing. It explains how applications are used at various stages, including bioinformatics, data mining, predicting human response to drugs, and high-throughput screening. By providing a comprehensive view, the book offers readers a unique framework and systems perspective from which they can devise strategies to thoroughly exploit the use of computers in their organizations during all phases of the discovery and development process. Chapters are organized into the following sections: * Computers in pharmaceutical research and development: a general overview * Understanding diseases: mining complex systems for knowledge * Scientific information handling and enhancing productivity * Computers in drug discovery * Computers in preclinical development * Computers in development decision making, economics, and market analysis * Computers in clinical development * Future applications and future development Each chapter is written by one or more leading experts in the field and carefully edited to ensure a consistent structure and approach throughout the book. Figures are used extensively to illustrate complex concepts and multifaceted processes. References are provided in each chapter to enable readers to continue investigating a particular topic in depth. Finally, tables of software resources are provided in many of the chapters. This is essential reading for IT professionals and scientists in the pharmaceutical industry as well as researchers involved in informatics and ADMET, drug discovery, and technology development. The book's cross-functional, all-phases approach provides a unique opportunity for a holistic analysis and assessment of computer applications in pharmaceutics.

Computer Applications in Near Net-Shape Operations Andrew Y.C. Nee 2012-12-06 Having edited "Journal of Materials Processing Technology" (previously entitled "Journal of Mechanical Working Technology") for close on 25 years, I have seen the many dramatic changes that have occurred in the materials processing field. Long gone are the days when the only "materials processing" carried out was virtually the forming of conventional metals and alloys, and when the development of a new product or process in a great number of cases called for several months of repetitive trial-and-error,' with many (mostly intuition- or experience-based) expensive and time-consuming modifications being made to the dies, until success was achieved. Even when a 'successful' product was formed, its mechanical properties, in terms of springback and dimensional accuracy, thickness variations, residual stresses, surface finish, etc. , remained to be determined. Bulk-forming operations usually required expensive machining to be carried out on the product to impart the required dimensional accuracy and surface fmish. Over the years, the experience-based craft of metal forming has given way to the science of materials processing. With the use of the computer, forming operations can be simulated with accuracy, to determine the best forming route and the associated forming loads and die stresses, and to predict the mechanical properties of the formed product, even down to its surface texture.

Research Anthology on Rehabilitation Practices and Therapy Management Association, Information Resources 2020-08-21 The availability of practical applications, techniques, and case studies by international therapists is limited despite expansions to the fields of clinical psychology, rehabilitation, and counseling. As dialogues surrounding mental health grow, it is important to maintain therapeutic modalities that ensure the highest level of patient-centered rehabilitation and care are met across global networks. Research

Anthology on Rehabilitation Practices and Therapy is a vital reference source that examines the latest scholarly material on trends and techniques in counseling and therapy and provides innovative insights into contemporary and future issues within the field. Highlighting a range of topics such as psychotherapy, anger management, and psychodynamics, this multi-volume book is ideally designed for mental health professionals, counselors, therapists, clinical psychologists, sociologists, social workers, researchers, students, and social science academicians seeking coverage on significant advances in rehabilitation and therapy.

Informatics and Management Science III Wenjiang Du 2012-11-26 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

Advances in Data and Information Sciences Mohan L. Kolhe 2020-01-02 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.

Emerging Technologies for Combatting Pandemics M. Rubaiyat Hossain Mondal 2022-11-25 The COVID-19 pandemic has significantly affected the healthcare sector across the globe. Artificial Intelligence (AI) and the Internet of Medical Things (IoMT) play important roles when dealing with emerging challenges. These technologies are being applied to problems involving the early detection of infections, fast contact tracing, decision-making models, risk profiling of cohorts, and remote treatment. Applying these technologies runs against challenges including interoperability, lack of unified structure for eHealth, and data privacy and security. Emerging Technologies for Combatting Pandemics: AI, IoMT, and Analytics examines multiple models and solutions for various settings including individual, home, work, and society. The world's healthcare systems are battling the novel coronavirus, and government authorities, scientists, medical practitioners, and medical services are striving hard to surmount these challenges. This book focuses on the design and implementation of AI-based approaches in the proposed COVID-19 solutions that are enabled and supported by IoMT, sensor networks, cloud and edge computing, robotics, and analytics. It covers technologies under the umbrella of AI that include data science, big data, machine learning (ML), semantic technologies, analytics, and cyber security. Highlights of the book include: Epidemic forecasting models Surveillance and tracking systems IoMT and Internet of Healthcare Things-based integrated systems for COVID-19 Social network analysis systems Radiological image- based diagnosis systems Computational intelligence methods This reference work is beneficial for interdisciplinary students, researchers, and healthcare and technology professionals who need to know how computational intelligence could be used

for surveillance, control, prevention, prediction, diagnosis, and potential treatment of the disease.

Data Intensive Computing Applications for Big Data M. Mittal 2018-01-31 The book 'Data Intensive Computing Applications for Big Data' discusses the technical concepts of big data, data intensive computing through machine learning, soft computing and parallel computing paradigms. It brings together researchers to report their latest results or progress in the development of the above mentioned areas. Since there are few books on this specific subject, the editors aim to provide a common platform for researchers working in this area to exhibit their novel findings. The book is intended as a reference work for advanced undergraduates and graduate students, as well as multidisciplinary, interdisciplinary and transdisciplinary research workers and scientists on the subjects of big data and cloud/parallel and distributed computing, and explains didactically many of the core concepts of these approaches for practical applications. It is organized into 24 chapters providing a comprehensive overview of big data analysis using parallel computing and addresses the complete data science workflow in the cloud, as well as dealing with privacy issues and the challenges faced in a data-intensive cloud computing environment. The book explores both fundamental and high-level concepts, and will serve as a manual for those in the industry, while also helping beginners to understand the basic and advanced aspects of big data and cloud computing.

Informatics and Management Science V Wenjiang Du 2012-12-06 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

Knowledge-Based and Intelligent Information and Engineering Systems, Part IV Andreas König 2011-09-15 The four-volume set LNAI 6881-LNAI 6884 constitutes the refereed proceedings of the 15th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2011, held in Kaiserslautern, Germany, in September 2011. Part 4: The total of 244 high-quality papers presented were carefully reviewed and selected from numerous submissions. The 46 papers of Part 4 are organized in topical sections on human activity support in knowledge society, knowledge-based interface systems, model-based computing for innovative engineering, document analysis and knowledge science, immunity-based systems, natural language visualisation advances in theory and application of hybrid intelligent systems.

Sustainable and Advanced Applications of Blockchain in Smart Computational Technologies Keshav Kaushik 2022-09-29 This book concentrates on the sustainable applications of the Blockchain Technology across multiple latest computational knowledge domains. It covers the feasible and practical collaboration of Blockchain Technology with latest Sustainable Smart Computing Technologies. It will target the vast applications of Blockchain in the field of Internet of Things, Artificial Intelligence, and Cybersecurity. The book effectively provides satisfactory information about the essentials of Blockchain and IoT to a typical pursuer alongside encouraging an examination researcher to distinguish some modern issue regions that rise up out of the intermingling of the two advancements. Besides, the creators talk about

pertinent application zones, for example, smart city, e-social insurance, and so forth along the course of the book. • Covers the recent advancements in Blockchain technology • Discusses the applications of Blockchain technology for real life problems • Address the challenges related to implementation of Blockchain technology • Includes case studies • Includes the latest trends and area of research in Blockchain Technology This book is primarily aimed at graduates, researchers and professions working in the field of blockchain technology.

Informatics and Management Science IV Wenjiang Du 2012-12-06 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

Abawajy, Jemal H. 2012-02-29 "This book is a vital compendium of chapters on the latest research within the field of distributed computing, capturing trends in the design and development of Internet and distributed computing systems that leverage autonomic principles and techniques"--Provided by publisher.

Internet and Distributed Computing Advancements: Theoretical Frameworks and Practical Applications