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Electronics World Springer Nature th The 14 International Conference on Knowledge-Based and Intelligent Information and Engineering Systems was held during September 8 – 10, 2010 in Cardiff, UK. The conference was organized by the School of Engineering at Cardiff University, UK and KES International. KES2010 provided an international scientific forum for the presentation of the - sults of high-quality research on a broad range of intelligent systems topics. The c-ference attracted over 360 submissions from 42 countries and 6 continents: Argentina, Australia, Belgium, Brazil, Bulgaria, Canada, Chile, China, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hong Kong ROC, Hungary, India, Iran, Ireland, Israel, Italy, Japan, Korea, Malaysia, Mexico, The Netherlands, New Zealand, Pakistan, Poland, Romania, Singapore, Slovenia, Spain, Sweden, Syria, Taiwan, - nisia, Turkey, UK, USA and Vietnam. The conference consisted of 6 keynote talks, 11 general tracks and 29 invited s-sions and workshops, on the applications and theory of intelligent systems and related areas. The distinguished keynote speakers were Christopher Bishop, UK, Nikola - sabov, New Zealand, Saeid Nahavandi, Australia, Tetsuo Sawaragi, Japan, Yuzuru Tanaka, Japan and Roger Whitaker, UK. Over 240 oral and poster presentations provided excellent opportunities for the presentation of interesting new research results and discussion about them, leading to knowledge transfer and generation of new ideas. Extended

versions of selected papers were considered for publication in the Int- national Journal of Knowledge-Based and Intelligent Engineering Systems, Engine- ing Applications of Artificial Intelligence, Journal of Intelligent Manufacturing, and Neural Computing and Applications.

Techno-Societal 2020 Maker Media, Inc.

This book provides practicing scientists and engineers a tutorial on the fundamental concepts and use of microcontrollers. Today, microcontrollers, or single integrated circuit (chip) computers, play critical roles in almost all instrumentation and control systems. Most existing books arewritten for undergraduate and graduate students taking an electrical and/or computer engineering course. Furthermore, these texts have beenwritten with a particular model of microcontroller as the target discussion. These textbooks also require a requisite knowledge of digital design fundamentals. This textbook presents the fundamental concepts common to all microcontrollers. Our goals are to present the over–arching theory of microcontroller operation and to provide a detailed discussion on constituent subsystems available in most microcontrollers. With such goals, we envision that the theory discussed in this book can be readily applied to a wide variety of microcontroller technologies, allowing practicing scientists and engineers to become acquainted with basic concepts prior to beginning a design involving a specific microcontroller. We have found that the fundamental principles of a given microcontroller are easily transferred to other controllers. Although this is a relatively small book, it is packed with useful information for quickly coming up to speed on microcontroller concepts.

Practical AVR Microcontrollers Springer

The significant objective of this edited book is to bridge the gap between smart manufacturing and big data by exploring the challenges and limitations. Companies employ big data technology in the manufacturing field to acquire data about the products. Manufacturing companies could gain a deep business insight by tracking customer details, monitoring fuel consumption, detecting product defects, and supply chain management. Moreover, the convergence of smart manufacturing and big data analytics currently suffers due to data privacy concern, short of qualified personnel, inadequate investment, long-term storage management of high-quality data. The technological advancement makes the data storage more accessible, cheaper and the convergence of these technologies seems to be more promising in

the recent era. This book identified the innovative challenges in the industrial domains by integrating heterogeneous data sources such as structured data, semi-structures data, geo-spatial data, textual information, multimedia data, social networking data, etc. It promotes data-driven business modelling processes by adopting big data technologies in the manufacturing industry. Big data analytics is emerging as a promising discipline in the manufacturing industry to build the rigid industrial data platforms. Moreover, big data facilitates process automation in the complete lifecycle of product design and tracking. This book is an essential guide and reference since it synthesizes interdisciplinary theoretical concepts, definitions, and models, involved in smart manufacturing domain. It also provides real-world scenarios and applications, making it accessible to a wider interdisciplinary audience. Features The readers will get an overview about the smart manufacturing system which enables optimized manufacturing processes and benefits the users by increasing overall profit. The researchers will get insight about how the big data technology leverages in finding new associations, factors and patterns through data stream observations in real time smart manufacturing systems. The industrialist can get an overview about the detection of defects in design, rapid response to market, innovative products to meet the customer requirement which can benefit their per capita income in better way. Discusses technical viewpoints, concepts, theories, and underlying assumptions that are used in smart manufacturing. Information delivered in a user-friendly manner for students, researchers, industrial experts, and business innovators, as well as for professionals and practitioners.

IoT and Analytics in Renewable Energy Systems (Volume 2) Springer Nature

The book presents high-quality papers from the Sixth International Conference on Microelectronics and Telecommunication Engineering (ICMETE 2022). It discusses the latest technological trends and advances in major research areas such as microelectronics, wireless communications, optical communication, signal processing, image processing, big data, cloud computing, artificial intelligence, and sensor network applications. This book includes the contributions of national and international scientists, researchers, and engineers from both academia and the industry. The contents of this book are useful to researchers, professionals, and students alike.

Microcontrollers Fundamentals for Engineers and Scientists Elsevier

A diverse group of scholars redefine constructionism--introduced by Seymour Papert in 1980--in light of new technologies and theories. Constructionism, first introduced by Seymour Papert in 1980, is a framework for learning to understand something by making an artifact for and with other people. A core goal of constructionists is to respect learners as creators, to enable them to engage in making meaning for themselves through construction, and to do this by democratizing access to the world's most creative and powerful tools. In this volume, an international and diverse group of scholars examine, reconstruct, and evolve the constructionist paradigm in light of new technologies and theories.

***Machine Intelligence and Emerging Technologies* CRC Press**

This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on

technologies that help develop and improve society, in particular on issues such as sensor and ICT based technologies for the betterment of people, Technologies for agriculture and healthcare, micro and nano technological applications. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Big Data Analytics in Smart Manufacturing CRC Press

This book constitutes the refereed proceedings of the Workshops held at the 8th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2012, in Halkidiki, Greece, in September 2012. The book includes a total of 66 interesting and innovative research papers from the following 8 workshops: the Second Artificial Intelligence Applications in Biomedicine Workshop (AIAB 2012), the First AI in Education Workshop: Innovations and Applications (AIeIA 2012), the Second International Workshop on Computational Intelligence in Software Engineering (CISE 2012), the First Conformal Prediction and Its Applications Workshop (COPA 2012), the First Intelligent Innovative Ways for Video-to-Video Communiccation in Modern Smart Cities Workshop (IIVC 2012), the Third Intelligent Systems for Quality of Life Information Services Workshop (ISQL 2012), the First Mining Humanistic Data Workshop (MHDW 2012), and the First Workshop on Algorithms for Data and Text Mining in Bioinformatics (WADTMB 2012).

Proceedings of World Conference on Artificial Intelligence: Advances and Applications Elsevier

In Practical AVR Microcontrollers, you ' ll learn how to use the AVR microcontroller to make your own nifty projects and gadgets. You ' ll start off with the basics in part one: setting up your development environment and learning how the "naked" AVR differs from the Arduino. Then you ' ll gain experience by building a few simple gizmos and learning how everything can be interconnected. In part two, we really get into the goodies: projects! Each project will show you exactly what software and hardware you need, and will provide enough detail that you can adapt it to your own needs and parts availability. Some of the projects you ' ll make: An illuminated secret panel A hallway lighting system with a waterfall effect A crazy lightshow Visual effects gizmos like a Moire wheel and shadow puppets In addition, you'll design and implement some home automation projects, including working with wired and wireless setups. Along the way, you'll design a useable home automation protocol and look at a variety of hardware setups. Whether you ' re new to electronics, or you just want to see what you can do with an AVR outside of an Arduino, Practical AVR Microcontrollers is the book for you.

SME Technical Paper Springer Nature

This book is a collection of outstanding research papers presented at the World Conference on Artificial Intelligence: Advances and Applications (WCAIAA 2023), organized by Sir Padampat Singhania University, India and is technically sponsored by Soft Computing Research Society during March 18 – 19, 2023. The topics covered are agent-based systems, evolutionary algorithms, approximate reasoning, bioinformatics and computational biology, artificial intelligence in modeling and simulation, natural

language processing, brain-machine interfaces, collective intelligence, computer vision and speech understanding, data mining, swarm intelligence, machine learning, human-computer interaction, intelligent sensor, devices and applications, and intelligent database systems.

Playing with Pop-ups Springer

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Key Digital Trends Shaping the Future of Information and Management Science Springer Nature

The two-volume set LNICST 490 and 491 constitutes the proceedings of the First International Conference on Machine Intelligence and Emerging Technologies, MIET 2022, hosted by Noakhali Science and Technology University, Noakhali, Bangladesh, during September 23 – 25, 2022. The 104 papers presented in the proceedings were carefully reviewed and selected from 272 submissions. This book focuses on theoretical, practical, state-of-art applications, and research challenges in the field of artificial intelligence and emerging technologies. It will be helpful for active researchers and practitioners in this field. These papers are organized in the following topical sections: imaging for disease detection; pattern recognition and natural language processing; bio signals and recommendation systems for wellbeing; network, security and nanotechnology; and emerging technologies for society and industry.

Making Makers Elsevier

Information Control Problems in Manufacturing 2006 contains the Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing (INCOM'2006). This symposium took place in Saint Etienne, France, on May 17-19 2006. INCOM is a tri-annual event of symposia series organized by IFAC and it is promoted by the IFAC Technical Committee on Manufacturing Plant Control. The purpose of the symposium INCOM'2006 was to offer a forum to present the state-of-the-art in international research and development work, with special emphasis on the applications of optimisation methods, automation and IT technologies in the control of manufacturing plants and the entire supply chain within the enterprise. The symposium stressed the scientific challenges and issues, covering the whole product and processes life cycle, from the design through the manufacturing and maintenance, to the distribution and service. INCOM'2006 Technical Program also included a special event on Innovative Engineering Techniques in Healthcare Delivery. The application of engineering and IT methods in medicine is a rapidly growing field with many opportunities for innovation. The Proceedings are composed of 3 volumes: Volume 1 - Information Systems, Control & Interoperability Volume 2 - Industrial Engineering Volume 3 - Operational Research * 3-volume set, containing 362 carefully reviewed and selected papers * presenting the state-of-the-art in international research and development in Information Control problems in Manufacturing

Intelligent Communication, Control and Devices Springer Nature

Making Simple Robots is based on the idea that anybody can build a robot! That includes

kids, educators, parents, and anyone who didn't make it to engineering school. If you can cut, fold, and tape a piece of paper to make a tube or a box, you can build a no-tech robotic part. In fact, many of the models in this book are based upon real-life prototypes -- working models created in research labs and companies. What's more, if you can use the apps on your smartphone, you can quickly learn to tell robots what to do using free, online, beginner-level software like MIT's Scratch and Microsoft MakeCode. The projects in this book which teach you about electric circuits by making jumping origami frogs with eyes that light up when you get them ready to hop. You'll practice designing all-terrain robot wheel-legs with free, online Tinkercad software, and you'll create files ready for 3D printing. You'll also learn to sew -- and code -- a cyborg rag doll with a blinking electronic "eye." Each project includes step-by-step directions and clear illustrations and photographs. Along the way, you'll learn about the real research behind the DIY version, find shortcuts for making projects easier when needed, and get suggestions for adding to the challenge as your skill set grows.

Making Simple Robots Springer Nature

This book comprises the select proceedings of the 3rd Biennial International Conference on Future Learning Aspects of Mechanical Engineering (FLAME) 2022. It aims to provide a comprehensive and broad-spectrum picture of state-of-the-art research and development in industrial and production engineering. Various topics covered include sustainable manufacturing processes, logistics & supply chains, Industry 4.0 practices, circular economy, lean six sigma, agile manufacturing, additive manufacturing, IoT and Big Data in manufacturing, 3D printing, simulation, manufacturing management and automation, surface roughness, multi-objective optimization and modelling for production processes, developments in casting, welding, machining, and machine tools and many more advancements in industrial and production engineering. This volume will prove a valuable resource for those in academia and industry working in the area of industrial and production engineering.

Functional safety of machine controls Apress

The four-volume set LNCS 9296-9299 constitutes the refereed proceedings of the 15th IFIP TC13 International Conference on Human-Computer Interaction, INTERACT 2015, held in Bamberg, Germany, in September 2015. The 74 full and short papers and 4 organizational overviews, 2 panels, 6 tutorials, and 11 workshops included in the fourth volume are organized in topical sections on tangible and tactile interaction; tools for design; touch and haptic; user and task modelling; visualization; visualization 3D; visualization in virtual spaces; wearable computing; demonstrations; and interactive posters.

Micro-Electronics and Telecommunication Engineering Springer

This book presents the select proceedings of the International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2020). It provides a comprehensive overview of the various technical challenges faced, their systematic investigation, contemporary developments, and future perspectives in the domain of mechanical engineering. The book covers a wide array of topics including fluid flow techniques, compressible flows, waste management and waste disposal, bio-fuels, renewable energy, cryogenic applications, computing in applied mechanics, product design, dynamics and control of structures, fracture and failure mechanics, solid mechanics, finite element analysis, tribology, nano-mechanics and MEMS, robotics, supply chain management and logistics, intelligent manufacturing system,

rapid prototyping and reverse engineering, quality control and reliability, conventional and non-conventional machining, and ergonomics. This book can be useful for students and researchers interested in mechanical engineering and its allied fields.

Advances in Industrial and Production Engineering Springer Nature

Cosplay is the perfect gateway to making. What better way to celebrate fantasy worlds than to role-play as your favorite characters Ã ¢ ?? and build versatile skills along the way! In the latest issue of Make: we show you how to use EVA foam to make realistic fake leather, weld together 3D prints for BIG armor builds, and use Bekonix's easy drag-and-drop timelines to program cosplay lights, motors, and audio. Then, take it further by conceptualizing your own original character from the ground up. Plus, star cosplayers share their favorite tools, techniques, and communities. Includes 42 projects you can make: Create a camera obscura to view the upcoming solar eclipse Sew versatile squishy sensors Build your own gadget geocache puzzle Save big $$ with a DIY photo light meter Track periods and the lunar calendar offline with an illuminating display How to 3D print in metal And much more!

Recent Challenges in Science, Engineering and Technology MIT Press

Proceedings from the International Conference on Advances in Engineering and Technology (AET2006)

Information Systems for Intelligent Systems Springer Nature

This book presents best selected papers presented at the 4th International Conference on Smart Computing and Informatics (SCI 2020), held at the Department of Computer Science and Engineering, Vasavi College of Engineering (Autonomous), Hyderabad, Telangana, India. It presents advanced and multi-disciplinary research towards the design of smart computing and informatics. The theme is on a broader front which focuses on various innovation paradigms in system knowledge, intelligence and sustainability that may be applied to provide realistic solutions to varied problems in society, environment and industries. The scope is also extended towards the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in various disciplines of science, technology and health care.

Proceedings from the International Conference on Advances in Engineering and Technology (AET2006) Springer

This book (proceedings of ISMS 2022) is intended to be used as a reference by students and researchers who collect scientific and technical contributions with respect to models, tools, technologies and applications in the field of information systems and management science. This textbook shows how to exploit information systems in a technology-rich management field. The book introduces concepts, principles, methods, and procedures that will be valuable to students and scholars in thinking about existing organization systems, proposing new systems, and working with management professionals in implementing new information systems.