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Lucia Knapčíková,Dragan Peraković

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Advanced Research on Computer Education, Simulation and Modeling Sally Lin,Xiong Huang,2011-06-06 This two volume set CCIS 175 and CCIS 176 constitutes the refereed proceedings of the International Conference on Computer Education Simulation and Modeling CSEM 2011 held in Wuhan China in June 2011 The 148 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions The papers cover issues such as multimedia and its application robotization and automation mechatronics computer education modern education research control systems data mining knowledge management image processing communication software database technology artificial intelligence computational intelligence simulation and modeling agent based simulation biomedical visualization device simulation modeling object oriented simulation Web and security visualization vision and visualization coupling dynamic modeling theory discretization method and modeling method research   *Advanced Technologies, Systems, and Applications IV -Proceedings of the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies (IAT 2019)* Samir Avdaković,Aljo Mujčić,Adnan Mujezinović,Tarik Uzunović,Ismar Volić,2019-07-12 This book presents the scientific outcomes of the conference 11th Days of Bosnian Herzegovinian American Academy of Arts and Sciences held in Sarajevo Bosnia and Herzegovina June 20 23 2019 Including innovative applications of advanced technologies it offers a uniquely comprehensive multidisciplinary and interdisciplinary overview of the latest developments in a broad range of technologies and methodologies viewed through the prism of computing networking information technology robotics complex systems communications energy mechanical engineering economics and medicine among others

Advanced Machine Learning Technologies and Applications Aboul-Ella Hassanien,Kuo-Chi Chang,Tang Mincong,2021-03-04 This book presents the refereed proceedings of the 6th International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2021 held in Cairo Egypt during March 22 24 2021 and organized by the Scientific Research Group of Egypt SRGE The papers cover current research Artificial Intelligence Against COVID 19 Internet of Things Healthcare Systems Deep Learning Technology Sentiment analysis Cyber Physical System Health Informatics Data Mining Power and Control Systems Business Intelligence Social media Control Design and Smart Systems

Advanced Manufacturing and Automation XII Yi Wang,Tao Yu,Kesheng Wang,2023-01-25 This book is a compilation of selected papers from the 12th International Workshop of Advanced Manufacturing and Automation IWAMA 2022 held in Jimei University Xiamen China on 01 02 November 2022 Topics focusing on novel techniques for manufacturing and automation in Industry 4 0 are now vital factors for the maintenance and improvement of the economy of a nation and the quality of life It will help academic researchers and engineering to implement the concept theory and methods in Industry 4 0 which has been a hot topic These proceedings will make valuable contributions to academic researchers engineers in the industry for the challenges in the 4th industry revolution and smart factories   **Advanced Hybrid Information**

Processing Shuai Liu,Xuefei Ma,2022-01-18 This two volume set constitutes the post conference proceedings of the 5th EAI International Conference on Advanced Hybrid Information Processing ADHIP 2021 held in October 2021 Due to COVID 19 the conference was held virtually The 94 papers presented were selected from 254 submissions and focus on theory and application of hybrid information processing technology for smarter and more effective research and application The theme of ADHIP 2020 was Social hybrid data processing The papers are named in topical sections as follows Intelligent algorithms in complex environment AI system research and model design Method research on Internet of Things technology Research and analysis with intelligent education   **Industry 4.0 and Advanced Manufacturing, Volume 1** Amaresh Chakrabarti,Satyam Suwas,Manish Arora,2025-02-26 This book presents select proceedings of the International Conference on Industry 4 0 and Advanced Manufacturing abbreviated as I 4AM pronounced i forum a biennial conference series which intends to provide a platform to bring together all stakeholders in manufacturing and Industry 4 0 I 4AM enables those in academia and industry in India and abroad to deliberate on the nature needs challenges opportunities problems and solutions in this transformational area The topics covered include all areas of Industry 4 0 and advanced manufacturing including but not limited to the following materials processing and joining controls autonomous systems robotics policy and entrepreneurship supply chains Industry X 0 digital manufacturing sustainable manufacturing and training and education Industry 4 0 is about using connected intelligence to usher in greater productivity quality flexibility safety and resource utilization across manufacturing enterprises in which advanced manufacturing technologies such as robotics or additive manufacturing play a critical role The book discusses enablers for sustainable affordable and human centric Industry 4 0 and showcases cutting edge practice research and educational innovation in this crucial and rapidly evolving area It can serve as a valuable reference for researchers and professionals interested in Industry 4 0 and allied fields   **Manufacturing Science and Technology, ICMST2011** Wu Fan,2011-11-22 Selected peer reviewed papers from the 2011 International Conference on Manufacturing Science and Technology ICMST 2011 September 16 18 2011 Singapore   **Industrial Automation from Scratch** Olushola Akande,2023-06-16 Explore industrial automation and control related concepts like the wiring and programming of VFDs and PLCs as well as smart factory Industry 4 0 with this easy to follow guide Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Learn the ins and outs of industrial automation and control by taking a pragmatic approach Gain practical insights into automating a manufacturing process using PLCs Discover how to monitor and control an industrial process using HMIs and SCADA Book DescriptionIndustrial automation has become a popular solution for various industries looking to reduce manual labor inputs and costs by automating processes This book helps you discover the abilities necessary for excelling in this field The book starts with the basics of industrial automation before progressing to the application of switches sensors actuators and motors and a direct on line DOL starter and its components such as circuit breakers contactors and overload relay Next you ll explore VFDs their parameter settings and

how they can be wired and programmed for induction motor control As you advance you ll learn the wiring and programming of major industrial automation tools PLCs HMIs and SCADA You ll also get to grips with process control and measurements temperature pressure level and flow along with analog signal processing with hands on experience in connecting a 4 20 mA transmitter to a PLC The concluding chapters will help you grasp various industrial network protocols such as FOUNDATION Fieldbus Modbus PROFIBUS PROFINET and HART as well as emerging trends in manufacturing Industry 4 0 and its empowering technologies such as IoT AI and robotics By the end of this book you ll have gained a practical understanding of industrial automation concepts for machine automation and control What you will learn Get to grips with the essentials of industrial automation and control Find out how to use industry based sensors and actuators Know about the AC DC servo and stepper motors Get a solid understanding of VFDs PLCs HMIs and SCADA and their applications Explore hands on process control systems including analog signal processing with PLCs Get familiarized with industrial network and communication protocols wired and wireless networks and 5G Explore current trends in manufacturing such as smart factory IoT AI and robotics Who this book is for This book is for both graduates and undergraduates of electrical electronics mechanical mechatronics chemical or computer engineering engineers making a career switch or anyone looking to pursue their career in the field of industrial automation The book covers topics ranging from basic to advanced levels and is a valuable reference for beginner level electrical IIoT automation process instrumentation and control production and maintenance engineers working in manufacturing and oil and gas industries among others **Advanced Manufacturing and Automation XIII** Yi Wang,Tao Yu,Kesheng Wang,2024-02-24 The book is a compilation of selected papers from the 13th International Workshop of Advanced Manufacturing and Automation IWAMA 2023 held in Shanghai University of Engineering Science China on 15 16 October 2023 Topics focusing on novel techniques for manufacturing and automation in Industry 4 0 are now vital factors for the maintenance and improvement of the economy of a nation and the quality of life It will help academic researchers and engineers to implement the concept theory and methods in Industry 4 0 which has been a hot topic These proceedings will make valuable contributions to academic researchers engineers in the industry for the challenges in the 4th industry revolution and smart factories   Automating with PROFINET Raimond Pigan,Mark Metter,2008-12-15 PROFINET is the first integrated Industrial Ethernet Standard for automation and utilizes the advantages of Ethernet and TCP IP for open communication from the corporate management level to the process itself PROFINET CBA divides distributed complex applications into autonomous units of manageable size Existing fieldbuses such as PROFIBUS and AS Interface can be integrated using so called proxies This permits separate and cross vendor development testing and commissioning of individual plant sections prior to the integration of the solution as a whole PROFINET IO with its particularly fast real time communication fulfills all demands currently placed on the transmission of process data and enables easy integration of existing fieldbus systems Isochronous real time IRT is used for isochronous communication in motion control applications

PROFINET depends on established IT standards for network management and teleservice Particulary to automation control engineering it offers a special security concept Special industrial network technology consisting of active network components cables and connection systems together with recommendations for installation complete the concept This book serves as an introduction to PROFINET technology Configuring engineers commissioning engineers and technicians are given an overview of the concept and the fundamentals they need to solve PROFINET based automation tasks Technical relationships and practical applications are described using SIMATIC products as example **6th EAI International Conference on Management of Manufacturing Systems** Lucia Knapčíková,Dragan Peraković,2022-06-16 The book presents the proceedings of the 6th EAI International Conference on Management of Manufacturing Systems MMS 2021 which took place online on October 6 2021 The conference covered management of manufacturing systems with support for Industry 4 0 logistics and intelligent manufacturing systems and applications cooperation management and its effective applications Topics include RFID applications economic impacts in logistics ICT support for Industry 4 0 industrial and smart logistics intelligent manufacturing systems and applications and much more **Computer Aided Systems Theory – EUROCAST 2024** Alexis Quesada-Arencibia,Michael Affenzeller,Roberto Moreno-Díaz,2025-04-23 This three part LNCS volumes constitutes the refereed proceedings of the 19th International Conference on Computer Aided Systems Theory EUROCAST 2024 held in Las Palmas de Gran Canaria Spain during February 25 to March 1 2024 The 104 full papers included in this book were carefully reviewed and selected from 150 submissions They were organized in topical sections as follows Part I Systems Theory Applications Pioneers and Landmarks Theory and Applications of Metaheuristic Algorithms Mechatronic Product Development and Model Based System Design Verification and Simulation Part II Applications of Signal Processing Technology Applied Data Science and Engineering for Intelligent Transportation Systems and Smart Mobility Computer and Systems Based Methods and Electronic Tools in Clinical and Academic Medicine Systems in Industrial Robotics Automation and IoT Systems Thinking Applications in Technology Science and Management and Data Science in Medical and Bio Informatics Part III Modeling Simulation and Optimization in Production and Logistics Green AI and SW Tools for Sustainable Energy and Materials Consumption Stochastic Models Statistical Methods and Applied Systems Simulations and Systems Cybersecurity Technologies and Quantum Approaches Potentials **Artificial Intelligence and Renewables Towards an Energy Transition** Mustapha Hatti,2020-12-17 This proceedings book emphasizes adopting artificial intelligence based and sustainable energy efficiency integrated with clear objectives to involve researchers students and specialists in their development and implementation adequately in achieving objectives The integration of artificial intelligence into renewable energetic systems would allow the rapid development of a knowledge based economy suitable to the energy transition while fully integrating the renewables into the global economy This is how artificial intelligence has hand in by conceptualizing this transition and above all by saving time The knowledge economy is valuated within the smart

cities which are fast becoming the favorite places where the energy transition will take place efficiently and intelligently by implementing integrated approaches to energy saving and energy supply and integrated urban approaches that go beyond individual interventions in buildings or transport modes using information and communication technologies   *Robotics and Automation in Construction* Carlos Balaguer,Mohamed Abderrahim,2008-10-01 This book addresses several issues related to the introduction of automaton and robotics in the construction industry in a collection of 23 chapters The chapters are grouped in 3 main sections according to the theme or the type of technology they treat Section I is dedicated to describe and analyse the main research challenges of Robotics and Automation in Construction RAC The second section consists of 12 chapters and is dedicated to the technologies and new developments employed to automate processes in the construction industry Among these we have examples of ICT technologies used for purposes such as construction visualisation systems added value management systems construction materials and elements tracking using multiple IDs devices This section also deals with Sensorial Systems and software used in the construction to improve the performances of machines such as cranes and in improving Human Machine Interfaces MMI Authors adopted Mixed and Augmented Reality in the MMI to ease the construction operations Section III is dedicated to describe case studies of RAC and comprises 8 chapters Among the eight chapters the section presents a robotic excavator and a semi automated fa ade cleaning system The section also presents work dedicated to enhancing the force of the workers in construction through the use of Robotic powered exoskeletons and body joint adapted assistive units which allow the handling of greater loads   Industrial Robots Programming J. Norberto Pires,2007-04-03 Industrial Robots Programming focuses on designing and building robotic manufacturing cells and explores the capabilities of today s industrial equipment as well as the latest computer and software technologies Special attention is given to the input devices and systems that create efficient human machine interfaces and how they help non technical personnel perform necessary programming control and supervision tasks Drawing upon years of practical experience and using numerous examples and illustrative applications J Norberto Pires covers robotics programming as it applies to The current industrial robotic equipment including manipulators control systems and programming environments Software interfaces that can be used to develop distributed industrial manufacturing cells and techniques which can be used to build interfaces between robots and computers Real world applications with examples designed and implemented recentlyin the lab Industrial Robots Programming has been selected for indexing by Scopus For more information about Industrial Robotics please find the author s Industrial Robotics collection at the iTunesU University of Coimbra channel   Security in IoT Rituparna Chaki,Debdutta Barman Roy,2022-03-07 The diverse applications of IoT are achieved by a set of complex inter related networks of things and communications IoT applications are also concerned about an array of devices such as sensors mobile devices personal computers the smart systems such as Alexa Eco etc besides the whole range of communication network binding them together in a seamless manner This book explores the variegated perspectives of security in the

complex context of Internet of Things It also aims to present the changing face of security from the ubiquitous networks comprising of WSN as the lowest layer to the enabler apps working as bridge between the users and the complex IoT system It takes a closer look at the different types of security schemes required to fit in the heterogeneous nature of IoT network whilst the readers are also introduced to basic attacks targeting an IoT network as well as specific types of security schemes worked out by researchers across different countries As Programmable Logic Controllers PLC play a fundamental role in Industrial Control Systems since they provide various functionalities of physical tools by collecting data from input devices and sending commands to output devices this book includes a discussion on the security considerations of extending a PLC based system with IoT capabilities Other advanced topics include The machine ethics aspects in the IoT system the Intrusion detection of WSN and the methods of securing the user from privacy breaches due to the overprivileged IoT apps This book will be beneficial to any readers interested in security of IoT systems and how to develop a layer wise security scheme for such a system **Advanced Manufacturing and Automation VII** Kesheng Wang,Yi Wang,Jan Ola Strandhagen,Tao Yu,2018-02-10 The proceedings brings together a selection of papers from the 7th International Workshop of Advanced Manufacturing and Automation IWAMA 2017 held in Changshu Institute of Technology Changshu China on September 11 12 2017 Most of the topics are focusing on novel techniques for manufacturing and automation in Industry 4 0 These contributions are vital for maintaining and improving economic development and quality of life The proceeding will assist academic researchers and industrial engineers to implement the concepts and theories of Industry 4 0 in industrial practice in order to effectively respond to the challenges posed by the 4th industrial revolution and smart factories **Technologies of Robotic Welding** Maoai Chen,Wenjian Ren,Yuanning Jiang,2024-11-11 The book deals with robotic welding systems and their applications The mechanical design of manipulator sensing technology welding process manipulating technology and maintenance procedure of welding robot are presented in detail with must know basic theories about operation principle of robot briefly introduced The book features a large quantity of carefully selected images and tables to help the reader understand the technologies of robotic welding easily and quickly The book benefits welding engineers mechanical engineers researchers and senior undergraduate students and postgraduate students in the fields of welding engineering mechanical engineering etc **Industrial Automation Technologies** Chanchal Dey,Sunit Kumar Sen,2020-05-28 The book begins with an overview of automation history and followed by chapters on PLC DCS and SCADA describing how such technologies have become synonymous in process instrumentation and control The book then introduces the niche of Fieldbuses in process industries It then goes on to discuss wireless communication in the automation sector and its applications in the industrial arena The book also discusses theall pervading IoT and its industrial cousin IIoT which is finding increasing applications in process automation and control domain The last chapter introduces OPC technology which has strongly emerged as a defacto standard for interoperable data exchange between multi vendor software applications and bridges the

divide between heterogeneous automation worlds in a very effective way Key features Presents an overall industrial automation scenario as it evolved over the years Discusses the already established PLC DCS and SCADA in a thorough and lucid manner and their recent advancements Provides an insight into today s industrial automation field Reviews Fieldbus communication and WSNs in the context of industrial communication Explores IIoT in process automation and control fields Introduces OPC which has already carved out a niche among industrial communication technologies with its seamless connectivity in a heterogeneous automation world Dr Chanchal Dey is Associate Professor in the Department of Applied Physics Instrumentation Engineering Section University of Calcutta He is a reviewer of IEEE Elsevier Springer Acta Press Sage and Taylor Francis Publishers He has more than 80 papers in international journals and conference publications His research interests include intelligent process control using conventional fuzzy and neuro fuzzy techniques Dr Sunit Kumar Sen is an ex professor Department of Applied Physics Instrumentation Engineering Section University of Calcutta He was a coordinator of two projects sponsored by AICTE and UGC Government of India He has published around70 papers in international and national journals and conferences and has published three books the last one was published by CRC Press in 2014 He is a reviewer of Measurement Elsevier His field of interest is new designs of ADCs and DACs   **Comprehensive Energy Systems** Ibrahim Dincer,2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language

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