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Blockchain in the Industrial Internet of Things Sep 23 2021

OPC Unified Architecture Sep 04 2022 Motivation for This Book The OPC Foundation provides specifications for data exchange in industrial au- mation. There is a long history of COM/DCOM-based specifications, most pro- nent OPC Data Access (DA), OPC Alarms and Events (A&E), and OPC Historical Data Access (HDA), which are widely accepted in the industry and implemented by almost every system targeting industrial automation. Now the OPC Foundation has released a new generation of OPC specifications called OPC Unified Architecture (OPC UA). With OPC UA, the OPC Foundation fulfills a technology shift from the retiring COM/DCOM technology to a servi- oriented architecture providing data in a platform-independent manner via Web Services or its own optimized TCP-based protocol. OPC UA unifies the previous specifications into one single address space capable of dealing with current data, alarms and events and the history of current data as well as the event history. A remarkable enhancement of OPC UA is the Address Space Model by which v- dors can expose a rich and extensible information model using object-oriented techniques. OPC UA scales well from intelligent devices, controllers, DCS, and SCADA systems up to MES and ERP systems. It also scales well in its ability to provide information; on the lower end, a model similar to Classic OPC can be used, providing only base information, while at the upper end, highly sophisticated models can be described, providing a large amount of metadata including complex type hierarchies.

Advanced Manufacturing and Automation IX May 08 2020 This book presents selected papers from the 9th International Workshop of Advanced Manufacturing and Automation (IWAMA 2019), held in Plymouth, UK, on November 21 – 22, 2019. Discussing topics such as novel techniques for manufacturing and automation in Industry 4.0 and smart factories, which are vital for maintaining and improving economic development and quality of life, it offers researchers and industrial engineers insights into implementing the concepts and theories of Industry 4.0, in order to effectively respond to the challenges posed by the 4th industrial revolution and smart factories.

Advanced Design and Manufacturing Based on STEP Nov 25 2021 Design and manufacturing is the essential element in any product development lifecycle. Industry vendors and users have been seeking a common language to be used for the entire product development lifecycle that can describe design, manufacturing and other data pertaining to the product. Many solutions were proposed, the most successful being the Stadndard for Exchange of Product model (STEP). STEP provides a mechanism that is capable of describing product data, independent from any particular system. The nature of this description makes it suitable not only for neutral file exchange, but also as a basis for implementing, sharing and archiving product databases. ISO 10303-AP203 is the first and perhaps the most successful AP developed to exchange design data between different CAD systems. Going from geometric data (as in AP203) to features (as in AP224) represents an important step towards having the right type of data in a STEP-based CAD/CAM system. Of particular significance is the publication of STEP-NC, as an extension of STEP to NC, utilising feature-based concepts for CNC machining purposes. The aim of this book is to provide a snapshot of the recent research outcomes and implementation cases in the field of design and manufacturing where STEP is used as the primary data representation protocol. The 20 chapters are contributed by authors from most of the top research teams in the world. These research teams are based in national research institutes, industries as well as universities.

A Roadmap to Industry 4.0: Smart Production, Sharp Business and Sustainable Development Jan 04 2020 Business innovation and industrial intelligence are paving the way for a future in which smart factories, intelligent machines, networked processes and Big Data are combined to foster industrial growth. The maturity and growth of instrumentation, monitoring and automation as key technology drivers support Industry 4.0 as a viable, competent and actionable business model. This book offers a primer, helping readers understand this paradigm shift from industry 1.0 to industry 4.0. The focus is on grasping the necessary pre-conditions, development & technological aspects that conceptually describe this transformation, along with the practices, models and real-time experience needed to achieve sustainable smart manufacturing technologies. The primary goal is to address significant questions of what, how and why in this context, such as:What is Industry 4.0?What is the current status of its implementation?What are the

pillars of Industry 4.0? How can Industry 4.0 be effectively implemented? How are firms exploiting the Internet of Things (IoT), Big Data and other emerging technologies to improve their production and services? How can the implementation of Industry 4.0 be accelerated? How is Industry 4.0 changing the workplace landscape? Why is this melding of the virtual and physical world needed for smart production engineering environments? Why is smart production a game-changing new form of product design and manufacturing?

Industrial Internet of Things Aug 23 2021 This book develops the core system science needed to enable the development of a complex industrial internet of things/manufacturing cyber-physical systems (IIoT/M-CPS). Gathering contributions from leading experts in the field with years of experience in advancing manufacturing, it fosters a research community committed to advancing research and education in IIoT/M-CPS and to translating applicable science and technology into engineering practice. Presenting the current state of IIoT and the concept of cybermanufacturing, this book is at the nexus of research advances from the engineering and computer and information science domains. Readers will acquire the core system science needed to transform to cybermanufacturing that spans the full spectrum from ideation to physical realization.

Control Solutions Apr 06 2020

Official Gazette of the United States Patent and Trademark Office Jan 28 2022

Modern Plastics Worldwide Jul 22 2021

Madame Doubtfire Jul 02 2022 Lydia, Christopher and Natalie are used to domestic turmoil. Their parents' divorce has not made family life any easier in either home. The children bounce to and fro between their volatile mother, Miranda, and Daniel, their out-of-work actor father. Then Miranda advertises for a cleaning lady who will supervise the children after school - and Daniel gets the job, disguised as Madame Doubtfire. This is a bittersweet, touching and extremely funny book.

Instrument Engineers' Handbook, Volume 3 Jun 20 2021 Instrument Engineers' Handbook – Volume 3: Process Software and Digital Networks, Fourth Edition is the latest addition to an enduring collection that industrial automation (AT) professionals often refer to as the "bible." First published in 1970, the entire handbook is approximately 5,000 pages, designed as standalone volumes that cover the measurement (Volume 1), control (Volume 2), and software (Volume 3) aspects of automation. This fourth edition of the third volume provides an in-depth, state-of-the-art review of control software packages used in plant optimization, control, maintenance, and safety. Each updated volume of this renowned reference requires about ten years to prepare, so revised installments have been issued every decade, taking into account the numerous developments that occur from one publication to the next. Assessing the rapid evolution of automation and optimization in control systems used in all types of industrial plants, this book details the wired/wireless communications and software used. This includes the ever-increasing number of applications for intelligent instruments, enhanced networks, Internet use, virtual private networks, and integration of control systems with the main networks used by management, all of which operate in a linked global environment. Topics covered include: Advances in new displays, which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor, control, and optimize industrial processes, to determine the efficiency, energy consumption, and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient, despite associated problems involving cyber and local network security, energy conservation, and other issues. It shows how firewalls must separate the business (IT) and the operation (automation technology, or AT) domains to guarantee the safe function of all industrial plants. This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices. Reinforcing the fact that all industrial control systems are, in general, critically interdependent, this handbook provides a wide range of software application examples from industries including: automotive, mining, renewable energy, steel, dairy, pharmaceutical, mineral processing, oil, gas, electric power, utility, and nuclear power.

Modelling in Engineering 2020: Applied Mechanics Aug 11 2020 This book includes the outcomes of the 59th Symposium "Modelowanie w Mechanice" (Engineering Modelling in Mechanics) held in Ustroń from 22 February to 26 February 2020. The International Conference has an over 58-year-old history and is organized by the Department of Theoretical and Applied Mechanics of Silesian University of Technology under the patronage of the Polish Society of Theoretical and Applied Mechanics, Gliwice Branch. Subjects of the conference are modelling of mechatronic systems, machinery dynamics, control systems, sensitivity analysis and optimization, numerical modelling and experimental methods in mechanics, biomechanics, heat flow analysis, fluid mechanics, etc. The papers are dealing with interdisciplinary problems in which mechanical phenomena are of decisive importance. The potential reader of this book will find their set of papers concentrated on the use of computer-aided design, virtual modelling, numerical simulations, fast prototyping and experimental tests of mechanical systems. It is an area of versatile and interdisciplinary research trends with one of the mainstreams focusing on applied mechanics.

Machine Tools Production Systems 3 Nov 13 2020 The first part of this third volume focuses on the design of mechatronic components, in particular the feed drives of machine tools used to generate highly dynamic drive movements. Engineering guides for the selection and design of important machine components, the control technology of feed drives, and the measuring systems required for position capture are presented. Another focus is on process and diagnostic equipment for manufacturing machines

and systems. The second part describes control concepts including programming methods for various applications of modern production systems. Programmable logic controllers (PLC), numerical controllers (NC) and robot controllers (RC) are part of these presentations. In the context of automated manufacturing systems, the various levels of the automation pyramid and the importance of control systems are also outlined. Finally, the volume deals with the engineering of machines and plants. The German Machine Tools and Production Systems Compendium has been completely revised. The previous five-volume series has been condensed into three volumes in the new ninth edition with colored technical illustrations throughout. This first English edition is a translation of the German ninth edition. Prof. Christian Brecher was elected as university professor for the Chair of Machine Tools at the Laboratory for Machine Tools and Production Engineering (WZL) of the RWTH Aachen University in 2004. He is also a member of the board of directors of the Laboratory for Machine Tools and Production Engineering (WZL) and of the Fraunhofer Institute for Production Technology (IPT), Aachen. He focuses on machine, transmission and control technology. Since 2012, as a co-founding member together with Prof. Hopmann, Prof. Brecher is head of the Aachen Center for Integrative Lightweight Production (AZL) of the RWTH Aachen University. Since 2018, Prof. Brecher has been head of the Fraunhofer Institute for Production Technology (IPT). Since 2019, he has been the spokesperson for the "Internet of Production" Cluster of Excellence at the RWTH Aachen University. Prof. em. Dr.-Ing. Dr.-Ing. E. h. Dr.-Ing. E.h. Manfred Weck was head of the Chair of Machine Tools at the Laboratory for Machine Tools and Production Engineering (WZL) of the RWTH Aachen University from 1973 to 2004. Since its foundation in 1980 until 2004, he was also Director and Head of the Department for Production Machines of the Fraunhofer Institute for Production Technology (IPT), Aachen. He founded the AiF Research Community "Ultraprecisionstechnik e.V." (Ultraprecision technology) in 1988. Over the years, Prof. Weck received various honors and awards, amongst them the SME Frederick W. Taylor Research Medal in 2007 and the Acceptance into the Hall of Fame of the Manager Magazine in 2015. Furthermore, Prof. Weck received the Aachen Engineering Prize in 2017, honoring him for his life's work

Second RILEM International Conference on Concrete and Digital Fabrication Mar 18 2021 This book gathers peer-reviewed contributions presented at the 2nd RILEM International Conference on Concrete and Digital Fabrication (Digital Concrete), held online and hosted by the Eindhoven University of Technology, the Netherlands from 6-9 July 2020. Focusing on additive and automated manufacturing technologies for the fabrication of cementitious construction materials, such as 3D concrete printing, powder bed printing, and shotcrete 3D printing, the papers highlight the latest findings in this fast-growing field, addressing topics like mixture design, admixtures, rheology and fresh-state behavior, alternative materials, microstructure, cold joints & interfaces, mechanical performance, reinforcement, structural engineering, durability and sustainability, automation and industrialization.

Handbuch Industrie 4.0 Bd.2 Aug 30 2019 Mit der Neuauflage des erfolgreichen Werkes wird die Geschichte der vierten industriellen Revolution fortgeschrieben und der Dynamik Rechnung getragen, mit der diese Vision in den vergangenen zwei bis drei Jahren weiterentwickelt und verwirklicht wurde. Experten aus Wissenschaft und Technik beleuchten verschiedene Facetten der Industrie 4.0 sowohl aus akademischer als auch aus praktischer Sicht und schaffen gleichermaßen einen Überblick über den Stand der Technik und die Vision selbst. Dies gelingt nicht zuletzt mit einer guten Mischung aus wissenschaftlichen Erkenntnissen, Praxisbeispielen und Übersichtsbeiträgen. Thematisch reicht das Spektrum von Basistechnologien (z. B. cyber-physische Systeme) über Integrations- und Migrationsansätze bis hin zu Geschäftsmodellen und Dienstleistungen. Zudem werden neben der Datensicherheit auch rechtliche Aspekte thematisiert. Die zweite Auflage wurde bearbeitet und erweitert, erscheint nun in 4 Bänden. Dieser zweite Band beinhaltet neue und bearbeitete Beiträge zur Automatisierung. Online ist dieses Nachschlagewerk auch über Springer Reference verfügbar.

VB & VBA in a Nutshell: The Language Apr 30 2022 Collects and defines the programming languages' statements, procedures, and functions, covering syntax, standard code conventions, differences of operation, data type, undocumented behaviors, and practical applications

Springer Handbook of Automation Mar 30 2022 This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field.

Advances in Automation and Robotics Research Jan 16 2021 This book gathers the proceedings of the 2nd Latin American Congress on Automation and Robotics, held at Pontificia Universidad Javeriana de Cali, Colombia, on October 30th – November 1st, 2019. It presents papers from researchers, scientists, and engineers from academia and industry, and explores current exciting research applications and future challenges, mainly in Latin American countries. The book covers a wide range of research fields associated with automation and robotics encountered in engineering, scientific research, and practice, including: autonomous systems, multi-robot and multi-agent systems, industrial automation and robotics, process control, modeling and optimization, control theory, artificial intelligence, kinematic and dynamic analysis of robotic systems, computer vision, self-localization, mapping and navigation, instruments, sensing and sensor fusion, evolutionary, bio-inspired, micro/nano, and soft robotics, novel robot designs, haptics, human – robot interaction and interfaces, simulation procedures, experimental validations, and educational robotics.

Indian Trade Journal Oct 25 2021

Control Solutions International Nov 01 2019

Cyber-Physical Systems and Control Jul 10 2020 This book presents the proceedings of the International Conference on Cyber-Physical Systems and Control (CPS&C'2019), held in Peter the Great St. Petersburg Polytechnic University, which is celebrating its 120th anniversary in 2019. The CPS&C'2019 was dedicated to the 35th anniversary of the partnership between Peter the Great St. Petersburg Polytechnic University and Leibniz University of Hannover. Cyber-physical systems (CPSs) are a new generation of control systems and techniques that help promote prospective interdisciplinary research. A wide range of theories and methodologies are currently being investigated and developed in this area to tackle various complex and challenging problems. Accordingly, CPSs represent a scientific and engineering discipline that is set to make an impact on future systems of industrial and social scale that are characterized by the deep integration of real-time processing, sensing, and actuation into logical and physical heterogeneous domains. The CPS&C'2019 brought together researchers and practitioners from all over the world and to discuss cross-cutting fundamental scientific and engineering principles that underline the integration of cyber and physical elements across all application fields. The participants represented research institutions and universities from Austria, Belgium, Bulgaria, China, Finland, Germany, the Netherlands, Russia, Syria, Ukraine, the USA, and Vietnam. These proceedings include 75 papers arranged into five sections, namely keynote papers, fundamentals, applications, technologies, and education and social aspects.

Proceedings of China SAE Congress 2019: Selected Papers Dec 03 2019 These proceedings gather outstanding papers presented at the China SAE Congress 2019. Featuring contributions mainly from China, the biggest carmaker as well as most dynamic car market in the world, the book covers a wide range of automotive topics and the latest technical advances in the industry. Many of the approaches included can help technicians to solve practical problems that affect their daily work. In addition, the book offers valuable technical support to engineers, researchers and postgraduate students in the field of automotive engineering.

Cyber-physical Systems and Digital Twins Dec 27 2021 This book constitutes the proceedings of the 16th International Conference on Remote Engineering and Virtual Instrumentation (REV), held at the BMS College of Engineering, Bangalore, India on 3 – 6 February 2019. Today, online technologies are at the core of most fields of engineering, as well as of society as a whole, and are inseparably connected with Internet of Things, cyber-physical systems, collaborative networks and grids, cyber cloud technologies, service architectures, to name but a few. Since it was first held in, 2004, the REV conference has focused on the increasing use of the Internet for engineering tasks and the problems surrounding it. The 2019 conference demonstrated and discussed the fundamentals, applications and experiences in the field of online engineering and virtual instrumentation. It also presented guidelines for university-level courses on these topics, in view of the increasing globalization of education and the demand for teleworking, remote services and collaborative working environments.

Advances in VLSI and Embedded Systems Oct 01 2019 This book presents select peer-reviewed proceedings of the International Conference on Advances in VLSI and Embedded Systems (AVES 2019) held at SVNIT, Surat, Gujarat, India. The book covers cutting-edge original research in VLSI design, devices and emerging technologies, embedded systems, and CAD for VLSI. With an aim to address the demand for complex and high-functionality systems as well as portable consumer electronics, the contents focus on basic concepts of circuit and systems design, fabrication, testing, and standardization. This book can be useful for students, researchers as well as industry professionals interested in emerging trends in VLSI and embedded systems.

Software for Automation Nov 06 2022

Robust and Fault-Tolerant Control Dec 15 2020 Robust and Fault-Tolerant Control proposes novel automatic control strategies for nonlinear systems developed by means of artificial neural networks and pays special attention to robust and fault-tolerant approaches. The book discusses robustness and fault tolerance in the context of model predictive control, fault accommodation and reconfiguration, and iterative learning control strategies. Expanding on its theoretical deliberations the monograph includes many case studies demonstrating how the proposed approaches work in practice. The most important features of the book include: a comprehensive review of neural network architectures with possible applications in system modelling and control; a concise introduction to robust and fault-tolerant control; step-by-step presentation of the control approaches proposed; an abundance of case studies illustrating the important steps in designing robust and fault-tolerant control; and a large number of figures and tables facilitating the performance analysis of the control approaches described. The material presented in this book will be useful for researchers and engineers who wish to avoid spending excessive time in searching neural-network-based control solutions. It is written for electrical, computer science and automatic control engineers interested in control theory and their applications. This monograph will also interest postgraduate students engaged in self-study of nonlinear robust and fault-tolerant control.

Android Design Patterns Sep 11 2020 Master the challenges of Android user interface development with these sample patterns With Android 4, Google brings the full power of its Android OS to both smartphone and tablet computing. Designing effective user interfaces that work on multiple Android devices is extremely challenging. This book provides more than 75 patterns that you can use to create versatile user interfaces for both smartphones and tablets, saving countless hours of development time. Patterns cover the most common and yet difficult types of user interactions, and each is supported with richly illustrated, step-by-step instructions. Includes sample patterns for welcome and home screens, searches, sorting and filtering, data entry, navigation, images

and thumbnails, interacting with the environment and networks, and more Features tablet-specific patterns and patterns for avoiding results you don't want Illustrated, step-by-step instructions describe what the pattern is, how it works, when and why to use it, and related patterns and anti-patterns A companion website offers additional content and a forum for interaction Android Design Patterns: Interaction Design Solutions for Developers provides extremely useful tools for developers who want to take advantage of the booming Android app development market.

Twin-Control May 20 2021 This open access book summarizes the results of the European research project "Twin-model based virtual manufacturing for machine tool-process simulation and control" (Twin-Control). The first part reviews the applications of ICTs in machine tools and manufacturing, from a scientific and industrial point of view, and introduces the Twin-Control approach, while Part 2 discusses the development of a digital twin of machine tools. The third part addresses the monitoring and data management infrastructure of machines and manufacturing processes and numerous applications of energy monitoring. Part 4 then highlights various features developed in the project by combining the developments covered in Parts 3 and 4 to control the manufacturing processes applying the so-called CPSs. Lastly, Part 5 presents a complete validation of Twin-Control features in two key industrial sectors: aerospace and automotive. The book offers a representative overview of the latest trends in the manufacturing industry, with a focus on machine tools.

Process Engineering Feb 03 2020

Industrial Automation: Hands On Mar 06 2020 A practical guide to industrial automation concepts, terminology, and applications Industrial Automation: Hands-On is a single source of essential information for those involved in the design and use of automated machinery. The book emphasizes control systems and offers full coverage of other relevant topics, including machine building, mechanical engineering and devices, manufacturing business systems, and job functions in an industrial environment. Detailed charts and tables serve as handy design aids. This is an invaluable reference for novices and seasoned automation professionals alike. **COVERAGE INCLUDES:** * Automation and manufacturing * Key concepts used in automation, controls, machinery design, and documentation * Components and hardware * Machine systems * Process systems and automated machinery * Software * Occupations and trades * Industrial and factory business systems, including Lean manufacturing * Machine and system design * Applications

Azure Internet of Things Revealed Apr 18 2021 Design, build, and justify an optimal Microsoft IoT footprint to meet your project needs. This book describes common Internet of Things components and architecture and then focuses on Microsoft's Azure components relevant in deploying these solutions. Microsoft-specific topics addressed include: deploying edge devices and pushing intelligence to the edge; connecting IoT devices to Azure and landing data there, applying Azure Machine Learning, analytics, and Cognitive Services; roles for Microsoft solution accelerators and managed solutions; and integration of the Azure footprint with legacy infrastructure. The book concludes with a discussion of best practices in defining and developing solutions and creating a plan for success. **What You Will Learn** Design the right IoT architecture to deliver solutions for a variety of project needs Connect IoT devices to Azure for data collection and delivery of services Use Azure Machine Learning and Cognitive Services to deliver intelligence in cloud-based solutions and at the edge Understand the benefits and tradeoffs of Microsoft's solution accelerators and managed solutions Investigate new use cases that are described and apply best practices in deployment strategies Integrate cutting-edge Azure deployments with existing legacy data sources **Who This Book Is For** Developers and architects new to IoT projects or new to Microsoft Azure IoT components as well as readers interested in best practices used in architecting IoT solutions that utilize the Azure platform

Dictionary of Acronyms and Technical Abbreviations Feb 14 2021 This Dictionary covers information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical material. This Second Edition contains 10,000 new entries, for a total of 33,000.

Designing Embedded Systems with PIC Microcontrollers Jun 08 2020 Embedded Systems with PIC Microcontrollers: Principles and Applications is a hands-on introduction to the principles and practice of embedded system design using the PIC microcontroller. Packed with helpful examples and illustrations, the book provides an in-depth treatment of microcontroller design as well as programming in both assembly language and C, along with advanced topics such as techniques of connectivity and networking and real-time operating systems. In this one book students get all they need to know to be highly proficient at embedded systems design. This text combines embedded systems principles with applications, using the 16F84A, 16F873A and the 18F242 PIC microcontrollers. Students learn how to apply the principles using a multitude of sample designs and design ideas, including a robot in the form of an autonomous guide vehicle. Coverage between software and hardware is fully balanced, with full presentation given to microcontroller design and software programming, using both assembler and C. The book is accompanied by a companion website containing copies of all programs and software tools used in the text and a 'student' version of the C compiler. This textbook will be ideal for introductory courses and lab-based courses on embedded systems, microprocessors using the PIC microcontroller, as well as more advanced courses which use the 18F series and teach C programming in an embedded environment. Engineers in industry and informed hobbyists will also find this book a valuable resource when designing and

implementing both simple and sophisticated embedded systems using the PIC microcontroller. *Gain the knowledge and skills required for developing today's embedded systems, through use of the PIC microcontroller. *Explore in detail the 16F84A, 16F873A and 18F242 microcontrollers as examples of the wider PIC family. *Learn how to program in Assembler and C. *Work through sample designs and design ideas, including a robot in the form of an autonomous guided vehicle. *Accompanied by a CD-ROM containing copies of all programs and software tools used in the text and a 'student' version of the C compiler.

Programming Android Jun 01 2022 Presents instructions for creating Android applications for mobile devices using Java.

New Contributions in Information Systems and Technologies Aug 03 2022 This book contains a selection of articles from The 2015 World Conference on Information Systems and Technologies (WorldCIST'15), held between the 1st and 3rd of April in Funchal, Madeira, Portugal, a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research, technological development and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Human-Computer Interaction; Health Informatics; Information Technologies in Education; Information Technologies in Radio communications.

Advanced Optical Manufacturing Technologies Oct 05 2022 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

Principles of Health Interoperability HL7 and SNOMED Jul 30 2019 Joined-up healthcare makes information available when and where it is needed to improve safety, efficiency and effectiveness. Politicians may take interoperability between healthcare computer systems for granted, but it is non-trivial. Healthcare integration projects are notoriously under-estimated and come in over-budget and over-time. Joined-up healthcare depends on standards. The two leading standards are the SNOMED CT, which is a clinical terminology (semantics) and HL7 Version 3, which is a specialised healthcare interoperability language (syntax). Both are new, complex and fit for purpose. Tim Benson believes there is an unmet need for a book on Healthcare Integration. Some health informatics textbooks include chapters on HL7 and/or SNOMED, but these are usually quite short and cannot provide even an adequate introduction. There is little of much value on the Internet, or in journals or conference proceedings.

Predictive Maintenance in Smart Factories Oct 13 2020 This book presents the outcome of the European project "SERENA", involving fourteen partners as international academics, technological companies, and industrial factories, addressing the design and development of a plug-n-play end-to-end cloud architecture, and enabling predictive maintenance of industrial equipment to be easily exploitable by small and medium manufacturing companies with a very limited data analytics experience. Perspectives and new opportunities to address open issues on predictive maintenance conclude the book with some interesting suggestions of future research directions to continue the growth of the manufacturing intelligence.

Substation Automation Jun 28 2019 The objective of the book is to fill a knowledge gap by covering the topic of substation automation by a team of authors, with academic and industry backgrounds. Understanding substation automation concepts and practical solutions requires knowledge in vastly diverse areas, such as primary and secondary equipment, computers, communications, fiber optic sensors, signal processing, and general information technology not generally taught in a power curricula but taught as independent subjects. At the same time, utility practice dictates how substation automation designs may be laid out and deployed. To design such a system one also requires knowledge about existing standards for data exchange, as well as test methods for evaluation of solutions. This book is designed to meet the educational needs of undergraduate and graduate power majors, as well as to serve as a reference to professionals who need to know about substation automation because of fast changing technology expertise needed in their careers. To meet the wide range of interests and needs, the book covers diverse aspects of substation automation, allowing instructors to select the best combination of chapters to meet their specific educational needs.

Catching the Process Fieldbus Feb 26 2022 Industrial communications are a multidimensional, occasionally confusing, mixture of fieldbuses, software packages, and media. The intent of this book is to make it all accessible. When industrial controls communication is understood and then installed with forethought and care, network operation can be both beneficial and painless. To that end, the book is designed to speak to you, whether you 're a beginner or interested newbie, the authors guide you through the bus route to communication success. However, this is not a how-to manual. Rather, think of it as a primer laying the groundwork for controls communication design, providing information for the curious to explore and motivation for the dedicated to go further.

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