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Business Driven Technology May 19 2021 Unlike any other MIS textbook franchise, our Baltzan texts (Business Driven Technology, Business Driven Information Systems and M: Information Systems) discuss various business initiatives first and how technology supports those initiatives second. The premise for this unique approach is that business initiatives should drive technology choices. Every discussion in these texts first addresses the business needs and then addresses the technology that supports those needs. Business Driven Technology5e offers you the flexibility to customize your course according to your needs and the needs of your students by covering only essential concepts and topics in the five core units, while providing additional in-depth coverage in the business and technology plug-ins. This text contains 20 chapters, 20 business plug-ins, and 12 technology plug-ins offering you the ultimate flexibility in tailoring content to the exact needs of your MIS or IT course. The unique construction of this text allows you to cover essential concepts and topics in the five core units while providing you with the ability to customize a course and explore certain topics in greater detail with the business and technology plug-ins. Plug-ins are fully developed modules of text that include student learning outcomes, case studies, business vignettes, and end-of-chapter material such as key terms, individual and group questions and projects, and case study exercises. We realize that instructors today require the ability to cover a blended mix of topics in their courses. While some instructors like to focus on networks and infrastructure throughout their course, others choose to focus on ethics and security. Business Driven Technology was developed to easily adapt to your needs. Each

chapter and plug-in is independent so you can:

- Cover any or all of the chapters as they suit your purpose.
- Cover any or all of the business plug-ins as they suit your purpose.
- Cover any or all of the technology plug-ins as they suit your purpose.
- Cover the plug-ins in any order you wish.

Baltzan, Business Driven Technology 5e: Engaging • Flexible • 100% Supported

Business Modeling and Software Design Jan 15 2021 This book constitutes the refereed proceedings of the 10th International Symposium on Business Modeling and Software Design, BMSD 2020, which took place in Berlin, Germany, in July 2020. BMSD is a leading international forum that brings together researchers and practitioners interested in business modeling and its relation to software design. Particular areas of interest are: Business Processes and Enterprise Engineering; Business Models and Requirements; Business Models and Services; Business Models and Software; Information Systems Architectures and Paradigms; Data Aspects in Business Modeling and Software Development; Blockchain-Based Business Models and Information Systems; IoT and Implications for Enterprise Information Systems. The theme of BMSD 2020 was: Towards Knowledge-Driven Enterprise Information Systems.

Business Driven Technology Aug 02 2022 BDT takes a business-first approach, improving students' perception of the value of IS within the business discipline. This perspective allows instructors to more easily demonstrate how technology and systems support business performance and growth. The adaptive chapter/plug-in organization enables the instructor to adjust content according to their business or technical preferences.

Quality-Driven Query Answering for Integrated Information Systems Apr 29 2022 The Internet and the World Wide Web (WWW) are becoming more and more important in our highly interconnected world as more and more data and information is made available for online access. Many individuals and governmental, commercial, cultural, and scientific organizations increasingly depend on information sources that can be accessed and queried over the Web. For example, accessing flight schedules or retrieving stock information has become common practice in today's world. When accessing this data, many people assume that the information accessed is accurate and that the data source can be accessed reliably. These two examples clearly demonstrate that not only the information content is important, the information about the quality of the data becomes an even more crucial and critical aspect for individuals and organizations when they make plans or take decisions based on the results of their queries. More precisely, having access to information of known quality becomes critical for the well-being and indeed for the functioning of modern industrialized societies. Surprisingly, despite the urgent need for clear concepts and techniques to judge and value quality and for technology to use such (meta) information, very few scientific results are known and available. Few approaches are known to use quality measures for accessing and querying information over the Web. Only a limited number of products on the IT market address this burning problem.

Business Driven Information Systems Nov 24 2021

Business Resilience System (BRS): Driven Through Boolean, Fuzzy Logics and Cloud Computation Apr 05 2020 This book provides a technical approach to a Business Resilience System with its Risk Atom and Processing Data Point based on fuzzy logic and cloud computation in real time. Its purpose and objectives define a clear set of expectations for Organizations and Enterprises so their network system and supply chain are totally resilient and protected against cyber-attacks, manmade threats, and natural disasters. These enterprises include financial, organizational, homeland security, and supply chain operations with multi-point manufacturing across the world. Market shares and marketing advantages are expected to result from the implementation of the system. The collected information and defined objectives form the basis to monitor and analyze the data through cloud computation,

and will guarantee the success of their survivability's against any unexpected threats. This book will be useful for advanced undergraduate and graduate students in the field of computer engineering, engineers that work for manufacturing companies, business analysts in retail and e-Commerce, and those working in the defense industry, Information Security, and Information Technology.

Business Driven Technology Sep 03 2022 "Unlike any other MIS text, Business Driven Technology, 9e, discusses various business initiatives first and how technology supports those initiatives second. The premise for this unique approach is that business initiatives should drive technology choices. Every discussion in the text first addresses the business needs and then addresses the technology that supports those needs"--

Hard Disk Drive Servo Systems Jul 21 2021 The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. New theory, new controllers, actuators, sensors, new industrial processes, computer methods, new applications, new philosophies, new challenges. Much of this development work resides in industrial reports, feasibility study papers and the reports of advanced collaborative projects. The series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination. Hard disk drive systems are ubiquitous in today ' s computer systems and the technology is still evolving. There is a review of hard disk drive technology and construction in the early pages of this monograph that looks at the characteristics of the disks and there it can be read that: " bit density... continues to increase at an amazing rate ", " spindle speed... the move to faster and faster spindle speeds continue ", " form factors... the trend...is downward... to smaller and smaller drives ", " performance... factors are improving ", " redundant arrays of inexpensive disks... becoming increasingly common, and is now seen in consumer desktop machines ", " reliability... is improving slowly... it is very hard to improve the reliability of a product when it is changing rapidly " and finally " interfaces... continue to create new and improved standards... to match the increase in performance of the hard disks themselves " .

Business Driven Information Systems Nov 05 2022 Business Driven Information Systems 2nd edition takes a contemporary approach by discussing how business initiatives should ultimately drive technology choices. This edition offers an impressive variety of new case studies - real world examples of MIS in action- including coverage of Wikileaks, Myki and Apple innovations. Integrated coverage of mobile technologies, cloud computing and social networking reflects the emerging business environments that await today's business graduate. Business Driven Information Systems provides the foundation that will enable students to achieve excellence in business, whether they major in operations management, manufacturing, sales, marketing, finance, human resources, accounting, or virtually any other business discipline.

Business Driven Information Systems Jan 27 2022

Business Information Systems Jul 29 2019

Business Information Systems Jul 09 2020 This textbook offers students a systematic guide to how information systems underpin organisational activity in today's global information society, covering everything from ICT infrastructure and the digital environment to electronic marketing, mobile commerce and design thinking. While academically rigorous and underpinned by the author's deep knowledge of the subject, an engaging writing style combined with extensive pedagogical features, cases and innovative examples from around the world ensure that the text remains accessible to those approaching the topic for the first time. Taking an approach that views businesses as complex systems, the book illustrates how valuable systems thinking can be in our everyday working lives, while theoretical ideas are always supported by examples of their application in the real world. This text is the ideal

course companion for all students studying business information systems or management information systems modules at undergraduate, postgraduate or MBA level. New to this Edition: - New coverage of key contemporary topics, including big data, analytics, cloud computing, the internet of things, blockchain and bitcoin, green IS, ethics, and cyber security. - Brand new chapters on Mobile Commerce and Social Media, and Designing Digital Organisation (design thinking). - A revised concluding chapter considering contemporary technological trends, as well as reflections and predictions for future innovations.

Artificial Intelligence Driven Circuits and Systems Sep 30 2019 This book highlights selected papers presented at the 10th International Symposium on Embedded Computing and System Design (ISED) 2021. This symposium provides a platform for researchers to share the latest scientific achievements of embedded computing and system design. The book is divided into three broad sections. The first section discusses topics like VLSI and testing, circuits and systems with a focus on emerging technologies. The second section discusses topics like embedded hardware and software systems and novel applications. The final section discusses the state-of-the-art technologies involving IoT, artificial intelligence, green and edge computing that demonstrates the issues currently.

From Business Strategy to Information Technology Roadmap Dec 14 2020 Whether you are a CEO, CFO, board member, or an IT executive, From Business Strategy to Information Technology Roadmap: A Practical Guide for Executives and Board Members lays out a practical, how-to approach to identifying business strategies and creating value-driven technology roadmaps in your organization. Unlike many other books on the subject, you will not find theories or grandiose ideas here. This book uses numerous examples, illustrations, and case studies to show you how to solve the real-world problems that business executives and technology leaders face on a day-to-day basis. Filled with actionable advice you can use immediately, the authors introduce Agile and the Lean mindset in a manner that the people in your business and technology departments can easily understand. Ideal for executives in both the commercial and nonprofit sectors, it includes two case studies: one about a commercial family business that thrived to become a multi-million-dollar company and the other about a nonprofit association based in New York City that fights against child illiteracy.

Model-Driven Engineering of Information Systems May 31 2022 This title includes a number of Open Access chapters. Model-driven engineering (MDE) is the automatic production of software from simplified models of structure and functionality. It mainly involves the automation of the routine and technologically complex programming tasks, thus allowing developers to focus on the true value-adding functionality that the system needs to deliver. This book serves an overview of some of the core topics in MDE. The volume is broken into two sections offering a selection of papers that helps the reader not only understand the MDE principles and techniques, but also learn from practical examples. Also covered are the following topics: • MDE for software product lines • Formal methods for model transformation correctness • Metamodeling with Eclipse eCore • Metamodeling with UML profiles • Test cases generation This easily accessible reference volume offers a comprehensive guide to this rapidly expanding field. Edited by experienced writers with experience in both research and the practice of software engineering, Model-Driven Engineering of Information Systems: Principles, Techniques and Practice is an authoritative and easy-to-use reference, ideal for both researchers in the field and students who wish to gain an overview to this important field of study.

Information Systems Transformation Dec 26 2021 Every major enterprise has a significant installed base of existing software systems that reflect the tangled IT architectures that result from decades of patches and failed replacements. Most of these systems were designed to support business architectures that have changed dramatically. At best, these systems hinder agility and competitiveness and, at worst, can bring critical business

functions to a halt. Architecture-Driven Modernization (ADM) restores the value of entrenched systems by capturing and retooling various aspects of existing application environments, allowing old infrastructures to deliver renewed value and align effectively with enterprise strategies and business architectures. Information Systems Transformation provides a practical guide to organizations seeking ways to understand and leverage existing systems as part of their information management strategies. It includes an introduction to ADM disciplines, tools, and standards as well as a series of scenarios outlining how ADM is applied to various initiatives. Drawing upon lessons learned from real modernization projects, it distills the theory and explains principles, processes, and best practices for every industry. Acts as a one-stop shopping reference and complete guide for implementing various modernization models in myriad industries and departments Every concept is illustrated with real-life examples from various modernization projects, allowing you to immediately apply tested solutions and see results Authored by the Co-chair of the Object Management Group (OMG) Architecture-Driven Modernization (ADM) Task Force, which sets definitive systems modernization standards for the entire IT industry A web site supports the book with up to date coverage of evolving ADM Specifications, Tutorials, and Whitepapers, allowing you to remain up to date on modernization topics as they develop

Systems Design Jun 19 2021 The ground-breaking Shingo Model of 2008 introduced principles, systems, tools, and results. At that time, however, the systems element of the model did not receive the in-depth attention that other parts of the model did. As a result, organizations developed their own concept of systems. Some organizations have identified hundreds of systems and tools. In fact, the distinction between a system and a tool was not clearly defined until recently with the introduction of the Shingo SYSTEMS DESIGN workshop and the information discussed in this book. With the development of the workshop, the Shingo Institute is now teaching the three essential systems—work, improvement, and management—as well as the five required communication tools that are necessary to improve an organization. You ' ll find that when these systems are formalized, they work together to help create organizational excellence. With Systems Design: Building Systems that Drive Ideal Behavior you ' ll learn how to formalize the process of creating these three systems. In addition, a new tool, the Shingo system design map, is introduced. This book also details how you can improve the connections you ' ve already made between the tools, systems, results, and principles of the Shingo Model.

Risk-based, Management-led, Audit-driven, Safety Management Systems Aug 29 2019 Risk-based, Management-led, Audit-driven, Safety Management Systems, explains what a safety management system (SMS) is, and how it reduces risk in order to prevent accidental losses in an organization. It advocates the integration of safety and health into the day-to-day management of the enterprise as a value, rather than an add-on, and emphasizes that the safety movement must be initiated, led and maintained by management at all levels. The concepts of safety authority, responsibility and accountability are described as the key ingredients to safety system success. Safety system audits are expounded in simple terms, and leading safety performance indicators are suggested as the most important measurements, in preference to lagging indicators. McKinnon highlights the importance of the identification and control of risk as a key basis for a SMS, with examples of a simple risk matrix and daily task risk assessment, as well as a simplified method of assessing, analyzing, and controlling risks. The book refers to international Guidelines on SMS, as well as the proposed International Organization for Standardization (ISO) 45001, which could soon become the international safety benchmark for organizations worldwide. Using clear, approachable examples, the chapters give a complete overview of an SMS and its components. Confirming to most of the safety management system Guidelines published by leading world authorities, this volume will allow organizations to structure their own world-

class SMS.

High Confidence Software Reuse in Large Systems Nov 12 2020 Software reuse depicts a great vision for the software industry. It has been widely viewed as a promising way to improve both the productivity and quality of software development. However, despite of the successes we have achieved, there are still many issues that have limited the promotion of software reuse in the real world. Therefore, software reuse has remained an important hotspot of research. ICSR is the premier international conference in the field of software reuse. It has been an important venue for presenting advances and improvements within the software reuse domain, and a powerful driving force in promoting the interaction between researchers and practitioners. The theme of ICSR 10 was "High Confidence Software Reuse in Large Systems. " A high confidence system is one that behaves in a well-understood and predictable fashion. Today ' s trends towards widespread use of commercial off-the-shelf (COTS) technology, increased integration, continuous evolution, and larger scale are yielding more complex software systems. So, the problem of how to build high confidence complex systems and how to reuse software with a high level of confidence has become a new attractive topic for research. Furthermore, high-level software asset reuse has been a goal for the last 20 – 30 years, and it can still be considered an unsolved question. Components-based development, MDA-MDE-MDD, extreme programming, and other techniques or methods are promising approaches to software reuse that still need more research. These proceedings report on the current state of the art in software reuse.

Solar-Driven Water Treatment Feb 02 2020 Solar-Driven Water Treatment: Re-engineering and Accelerating Nature ' s Water Cycle looks at the use of solar energy and in particular photovoltaic technologies, as a viable, accessible and sustainable option in the treatment of water. Solar-Driven Water Treatment: Re-engineering and Accelerating Nature ' s Water Cycle provides insight into the different solar powered technologies, in-depth information about the viability of sunlight in the water treatment process, the potential environmental implications as well as the performance, economics, operation and maintenance of the discussed technologies. Elaborating on the potential issues and health risks associated with the water purification systems this reference also covers the need for appropriate technologies in the present scenario to improve worldwide access to clean drinking water. Readers will learn the most appropriate technology for their specific need making this book useful for renewable energy and environmental engineers in investigating energy efficiency, water treatment technologies, and the economics of technological change in the treatment of water by solar technologies. Provides a valuable resource on how to solve the issue of drinking water scarcity by solar energy Describes various solar water treatment techniques with their environmental impacts Cover issues associated with solar water purification and the need for technology assessment

Optimal Control of Dynamic Systems Driven by Vector Measures Mar 17 2021 This book is devoted to the development of optimal control theory for finite dimensional systems governed by deterministic and stochastic differential equations driven by vector measures. The book deals with a broad class of controls, including regular controls (vector-valued measurable functions), relaxed controls (measure-valued functions) and controls determined by vector measures, where both fully and partially observed control problems are considered. In the past few decades, there have been remarkable advances in the field of systems and control theory thanks to the unprecedented interaction between mathematics and the physical and engineering sciences. Recently, optimal control theory for dynamic systems driven by vector measures has attracted increasing interest. This book presents this theory for dynamic systems governed by both ordinary and stochastic differential equations, including extensive results on the existence of optimal controls and necessary conditions for optimality. Computational algorithms are developed based on the optimality

conditions, with numerical results presented to demonstrate the applicability of the theoretical results developed in the book. This book will be of interest to researchers in optimal control or applied functional analysis interested in applications of vector measures to control theory, stochastic systems driven by vector measures, and related topics. In particular, this self-contained account can be a starting point for further advances in the theory and applications of dynamic systems driven and controlled by vector measures.

Introduction to Information Systems Sep 22 2021 WHATS IN IT FOR ME? Information technology lives all around us-in how we communicate, how we do business, how we shop, and how we learn. Smart phones, iPods, PDAs, and wireless devices dominate our lives, and yet it's all too easy for students to take information technology for granted. Rainer and Turban's Introduction to Information Systems, 2nd edition helps make Information Technology come alive in the classroom. This text takes students where IT lives-in today's businesses and in our daily lives while helping students understand how valuable information technology is to their future careers. The new edition provides concise and accessible coverage of core IT topics while connecting these topics to Accounting, Finance, Marketing, Management, Human resources, and Operations, so students can discover how critical IT is to each functional area and every business. Also available with this edition is WileyPLUS - a powerful online tool that provides instructors and students with an integrated suite of teaching and learning resources in one easy-to-use website. The WileyPLUS course for Introduction to Information Systems, 2nd edition includes animated tutorials in Microsoft Office 2007, with iPod content and podcasts of chapter summaries provided by author Kelly Rainer.

Questions and Information Systems Oct 31 2019 The design and functioning of an information system improve to the extent that the system can handle the questions people ask. Surprisingly, however, researchers in the cognitive, computer, and information sciences have not thoroughly examined the multitude of relationships between information systems and questions -- both question asking and answering. The purpose of this book is to explicitly examine these relationships. Chapter contributors believe that questions play a central role in the analysis, design, and use of different kinds of natural or artificial information systems such as human cognition, social interaction, communication networks, and intelligent tutoring systems. Their efforts show that data structures and representations need to be organized around the questioning mechanisms in order to achieve a quick retrieval of relevant useful information.

Business Driven Information Systems Mar 29 2022 "Business Driven Information Systems discusses various business initiatives first and how technology supports those initiatives second. The premise for this unique approach is that business initiatives should drive technology choices. Every discussion first addresses the business needs and then addresses the technology that supports those needs. This text provides the foundation that will enable students to achieve excellence in business, whether they major in operations management, manufacturing, sales, marketing, finance, human resources, accounting, or virtually any other business discipline. Business Driven Information Systems is designed to give students the ability to understand how information technology can be a point of strength for an organization"--

Renewable-Energy-Driven Future Mar 05 2020 In order to promote the sustainable development of renewable energy and renewable-energy-driven technologies, Renewable-Energy-Driven Future: Technologies, Modelling, Applications, Sustainability and Policies provides a comprehensive view of the advanced renewable technologies and the benefits of utilizing renewable energy sources. Discussing the ways for promoting the sustainable development of renewable energy from the perspectives of technology, modelling, application, sustainability and policy, this book includes the advanced renewable-energy-

driven technologies, the models for renewable energy planning and integration, the innovative applications of renewable energy sources, decision-support tools for sustainability assessment and ranking of renewable energy systems, and the regulations and policies of renewable energy. This book can benefit the researchers and experts of renewable energy by helping them to have a holistic view of renewable energy. It can also benefit the policymakers and decision-makers by helping them to make informed decisions. Presents the advanced renewable-energy-driven technologies and the innovative applications of renewable energy sources Develops the models for the efficient use of renewable energy, decision-making and the investigation of its climate and economic benefits Investigates the sustainability of renewable energy systems Features the regulations and policies of renewable energy

Information Systems for Global Financial Markets: Emerging Developments and Effects Oct 12 2020 "This book offers focused research on the systems and technologies that provide intelligence and expertise to traders and investors and facilitate the agile ordering processes, networking, and regulation of global financial electronic markets"--Provided by publisher.

Creating a Data-Driven Organization Aug 22 2021 "What do you need to become a data-driven organization? Far more than having big data or a crack team of unicorn data scientists, it requires establishing an effective, deeply-ingrained data culture. This practical book shows you how true data-drivenness involves processes that require genuine buy-in across your company ... Through interviews and examples from data scientists and analytics leaders in a variety of industries ... Anderson explains the analytics value chain you need to adopt when building predictive business models"--Publisher's description.

Handbook of Dynamic Data Driven Applications Systems Sep 10 2020 The Handbook of Dynamic Data Driven Applications Systems establishes an authoritative reference of DDDAS, pioneered by Dr. Darema and the co-authors for researchers and practitioners developing DDDAS technologies. Beginning with general concepts and history of the paradigm, the text provides 32 chapters by leading experts in 10 application areas to enable an accurate understanding, analysis, and control of complex systems; be they natural, engineered, or societal: Earth and Space Data Assimilation Aircraft Systems Processing Structures Health Monitoring Biological Data Assessment Object and Activity Tracking Embedded Control and Coordination Energy-Aware Optimization Image and Video Computing Security and Policy Coding Systems Design The authors explain how DDDAS unifies the computational and instrumentation aspects of an application system, extends the notion of Smart Computing to span from the high-end to the real-time data acquisition and control, and manages Big Data exploitation with high-dimensional model coordination.

M: Information Systems Apr 17 2021 • Baltzan; M: Information Systems is a visual, magazine format designed to engage your students from the start! Saturated with fascinating, sometimes hard-to-believe real examples will keep them reading throughout the course. Baltzan ' s approach discusses various business initiatives first and how technology supports those initiatives second. The premise for this unique approach is that business initiatives drive technology choices in a corporation. Therefore, every discussion addresses the business needs first and addresses the technology that supports those needs second. This approach takes the difficult and often intangible MIS concepts, brings them down to the student ' s level, and applies them using a hands-on approach to reinforce the concepts. A derivative of the Baltzan; Business Driven Technology version, this M: Information Systems provides the foundation that will enable students to achieve excellence in business, whether they major in operations management, manufacturing, sales, marketing, etc. M: Information Systems is designed to give students the ability to understand how information technology can be a point of strength in an organization.

Advances in Applications of Data-Driven Computing Feb 13 2021 This book aims to foster

machine and deep learning approaches to data-driven applications, in which data governs the behaviour of applications. Applications of Artificial intelligence (AI)-based systems play a significant role in today ' s software industry. The sensors data from hardware-based systems making a mammoth database, increasing day by day. Recent advances in big data generation and management have created an avenue for decision-makers to utilize these huge volumes of data for different purposes and analyses. AI-based application developers have long utilized conventional machine learning techniques to design better user interfaces and vulnerability predictions. However, with the advancement of deep learning-based and neural-based networks and algorithms, researchers are able to explore and learn more about data and their exposed relationships or hidden features. This new trend of developing data-driven application systems seeks the adaptation of computational neural network algorithms and techniques in many application domains, including software systems, cyber security, human activity recognition, and behavioural modelling. As such, computational neural networks algorithms can be refined to address problems in data-driven applications. Original research and review works with model and build data-driven applications using computational algorithm are included as chapters in this book.

Essentials of Business-Driven Information Systems Oct 04 2022

Business-driven Information Technology Feb 25 2022 That every manager needs to know in order to use information technology effectively. Business professionals will value the book because it covers a range of important areas that few know completely. University students will find the book a valuable source of necessary information for technology and management courses. Rarely is so much diverse expertise brought together and focused in a single book. Book jacket.

Drive Jun 27 2019 The New York Times bestseller that gives readers a paradigm-shattering new way to think about motivation from the author of When: The Scientific Secrets of Perfect Timing Most people believe that the best way to motivate is with rewards like money—the carrot-and-stick approach. That's a mistake, says Daniel H. Pink (author of To Sell Is Human: The Surprising Truth About Motivating Others). In this provocative and persuasive new book, he asserts that the secret to high performance and satisfaction-at work, at school, and at home—is the deeply human need to direct our own lives, to learn and create new things, and to do better by ourselves and our world. Drawing on four decades of scientific research on human motivation, Pink exposes the mismatch between what science knows and what business does—and how that affects every aspect of life. He examines the three elements of true motivation—autonomy, mastery, and purpose—and offers smart and surprising techniques for putting these into action in a unique book that will change how we think and transform how we live.

Data-driven Design of Fault Diagnosis and Fault-tolerant Control Systems Dec 02 2019 Data-driven Design of Fault Diagnosis and Fault-tolerant Control Systems presents basic statistical process monitoring, fault diagnosis, and control methods and introduces advanced data-driven schemes for the design of fault diagnosis and fault-tolerant control systems catering to the needs of dynamic industrial processes. With ever increasing demands for reliability, availability and safety in technical processes and assets, process monitoring and fault-tolerance have become important issues surrounding the design of automatic control systems. This text shows the reader how, thanks to the rapid development of information technology, key techniques of data-driven and statistical process monitoring and control can now become widely used in industrial practice to address these issues. To allow for self-contained study and facilitate implementation in real applications, important mathematical and control theoretical knowledge and tools are included in this book. Major schemes are presented in algorithm form and demonstrated on industrial case systems. Data-driven Design of Fault Diagnosis and Fault-tolerant Control Systems will be of interest to process

and control engineers, engineering students and researchers with a control engineering background.

Group Recommender Systems May 07 2020 This book presents group recommender systems, which focus on the determination of recommendations for groups of users. The authors summarize different technologies and applications of group recommender systems. They include an in-depth discussion of state-of-the-art algorithms, an overview of industrial applications, an inclusion of the aspects of decision biases in groups, and corresponding de-biasing approaches. The book includes a discussion of basic group recommendation methods, aspects of human decision making in groups, and related applications. A discussion of open research issues is included to inspire new related research. The book serves as a reference for researchers and practitioners working on group recommendation related topics.

Information Systems for Business and Beyond Jan 03 2020 "Information Systems for Business and Beyond introduces the concept of information systems, their use in business, and the larger impact they are having on our world."--BC Campus website.

Innovation Through Information Systems Oct 24 2021 This book presents the current state of research in information systems and digital transformation. Due to the global trend of digitalization and the impact of the Covid 19 pandemic, the need for innovative, high-quality research on information systems is higher than ever. In this context, the book covers a wide range of topics, such as digital innovation, business analytics, artificial intelligence, and IT strategy, which affect companies, individuals, and societies. This volume gathers the revised and peer-reviewed papers on the topic "Technology" presented at the International Conference on Information Systems, held at the University of Duisburg-Essen in 2021

Advances in Production Management Systems. Production Management for Data-Driven, Intelligent, Collaborative, and Sustainable Manufacturing Aug 10 2020 The two-volume set IFIP AICT 535 and 536 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2018, held in Seoul, South Korea, in August 2018. The 129 revised full papers presented were carefully reviewed and selected from 149 submissions. They are organized in the following topical sections: lean and green manufacturing; operations management in engineer-to-order manufacturing; product-service systems, customer-driven innovation and value co-creation; collaborative networks; smart production for mass customization; global supply chain management; knowledge based production planning and control; knowledge based engineering; intelligent diagnostics and maintenance solutions for smart manufacturing; service engineering based on smart manufacturing capabilities; smart city interoperability and cross-platform implementation; manufacturing performance management in smart factories; industry 4.0 - digital twin; industry 4.0 - smart factory; and industry 4.0 - collaborative cyber-physical production and human systems.

Accelerator-Driven System at Kyoto University Critical Assembly Jun 07 2020 This open access book is a unique compilation of experimental benchmark analyses of the accelerator-driven system (ADS) at the Kyoto University Critical Assembly (KUCA) on the most recent advances in the development of computational methods. It is devoted especially to nuclear engineers and scientists. Readers will find a detailed description of advanced measurement techniques and calculation methodologies for the ADS with 14 MeV neutrons and high-energy neutrons (with combined use of 100 MeV protons and Pb-Bi target) at KUCA. Additionally, experimental results of nuclear transmutation of minor actinides by ADS and at a critical state are included. Readers also have access to benchmarks of specific ADS experiments with raw data in the Appendix. The book is a valuable resource for the ADS experiments at KUCA which are globally recognized as both static and kinetic studies from the point of view of fundamental research.

Data-Driven Technology for Engineering Systems Health Management Jul 01 2022 This

book introduces condition-based maintenance (CBM)/data-driven prognostics and health management (PHM) in detail, first explaining the PHM design approach from a systems engineering perspective, then summarizing and elaborating on the data-driven methodology for feature construction, as well as feature-based fault diagnosis and prognosis. The book includes a wealth of illustrations and tables to help explain the algorithms, as well as practical examples showing how to use this tool to solve situations for which analytic solutions are poorly suited. It equips readers to apply the concepts discussed in order to analyze and solve a variety of problems in PHM system design, feature construction, fault diagnosis and prognosis.

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