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KEY=FUTURE - KENZIE ANDREWS

Artifact-Driven Business Process Monitoring

A Novel Approach to Transparently Monitor Business Processes, Supported by Methods, Tools, and Real-World Applications

Springer Nature This book proposes a novel technique, named artifact-driven process monitoring, by which multi-party processes, involving non-automated activities, can be continuously and autonomously monitored. This technique exploits the Internet of Things (IoT) paradigm to make the physical objects, participating in a process, smart. Being equipped with sensors, a computing device, and a communication interface, such smart objects can then become self-aware of their own conditions and of the process they participate in, and exchange this information with the other smart objects and the involved organizations. To allow organizations to reuse preexisting process models, a method to instruct smart objects given Business Process Model and Notation (BPMN) collaboration diagrams is also presented. The work constitutes a revised version of the PhD dissertation written by the author at the PhD School of Information Engineering of Politecnico di Milano, Italy. In 2019, the PhD dissertation won the "CAiSE PhD award", granted to outstanding PhD theses in the field of Information Systems Engineering.

Government 3.0 – Next Generation Government Technology Infrastructure and Services

Roadmaps, Enabling Technologies & Challenges

Springer Historically, technological change has had significant effect on the locus of administrative activity, cost of carrying out administrative tasks, the skill sets needed by officials to effectively function, rules and regulations, and the types of interactions citizens have with their public authorities. Next generation Public Sector Innovation will be "Government 3.0" powered by innovations related to Open and big data, administrative and business process management, Internet-of-Things and blockchains for public sector innovation to drive improvements in service delivery, decision and policy making and resource management. This book provides fresh insights into this transformation while also examining possible negative side effects of the increasing ope nness of governments through the adoption of these new innovations. The goal is for technology policy makers to engage with the visions of Government 3.0 . Researchers should be able to critically examine some of the innovations described in the book as the basis for developing research agendas related to challenges associated with the adoption and use of some of the associated technologies. The book serves as a rich source of materials from leading experts in the field that enables Public administration practitioners to better understand how these new technologies impact traditional public administration paradigms. The book is suitable for graduate courses in Public Sector Innovation, Innovation in Public Administration, E-Government and Information Systems. Public sector technology policy makers, e-government, information systems and public administration researchers and practitioners should all benefit from reading this book.

A Mosaic of Computational Topics: from Classical to Novel

Dedicated to Jetty Kleijn on the Occasion of Her 65th Birthday

IOS Press This book, A Mosaic of Computational Topics: from Classical to Novel, is a collection of papers published to honor Professor Jetty Kleijn on the occasion of her 65th birthday. The scope and reach of her research is truly broad. She has made significant and lasting contributions in several research areas, both through the solving of challenging problems and in her pioneering of new research directions. She has published influential papers contributing to the foundations of computer science, in particular, in the area of formal languages and automata theory; to concurrency theory, in particular, Petri nets; and to natural computing, in particular bio-inspired computing and the computational modeling of bio-processes. A significant part of Professor Kleijn's research portfolio is interdisciplinary, including her work on the Petri net modeling of biological processes and the development of novel models of information processing in bio-systems such as reaction systems. She is also passionately engaged in promoting the involvement of women in computer science. Jetty and her work are well-recognized by the scientific community, a fact demonstrated by the enthusiastic response to the invitation to contribute to this book, and the 14 carefully refereed papers collected together here explore a number of research topics that are either directly or indirectly related to research directions pursued by Jetty Kleijn in the course of her career.

Fundamentals of Software Startups

Essential Engineering and Business Aspects

Springer Nature This book discusses important topics for engineering and managing software startups, such as how technical and business aspects are related, which complications may arise and how they can be dealt with. It also addresses the use of scientific, engineering, and managerial approaches to successfully develop software products in startup companies. The book covers a wide range of software startup phenomena, and includes the knowledge, skills, and capabilities required for startup product development; team capacity and team roles; technical debt; minimal viable products; startup metrics; common pitfalls and patterns observed; as well as lessons learned from startups in Finland, Norway, Brazil, Russia and USA. All results are based on empirical findings, and the claims are backed by evidence and concrete observations, measurements and experiments from qualitative and quantitative research, as is common in empirical software engineering. The book helps entrepreneurs and practitioners to become aware of various phenomena, challenges, and practices that occur in real-world startups, and provides insights based on sound research methodologies presented in a simple and easy-to-read manner. It also allows students in business and engineering programs to learn about the important engineering concepts and technical building blocks of a software startup. It is also suitable for researchers at different levels in areas such as software and systems engineering, or information systems who are studying advanced topics related to software business.

8th International Conference on Engineering, Project, and Product Management (EPPM 2017)

Proceedings

Springer This book presents the proceedings of the 8th International Conference on Engineering, Project, and Product Management (EPPM 2017), highlighting the importance of engineering, project and product management in a region of the world that is in need of transformation and rebuilding. The aim of the conference was to bring together the greatest minds in engineering and management and offer them a platform to share their innovative, and potentially transformational, findings. The proceedings are comprehensive, multidisciplinary, and advanced in their approach with an appeal not only for academicians and university students but also for professionals in various engineering fields, especially construction, manufacturing and production.

Blockchain and the Public Sector

Theories, Reforms, and Case Studies

Springer Nature This book discusses blockchain technology and its potential applications in digital government and the public sector. With its robust infrastructure and append-only record system, blockchain technology is being increasingly employed in the public sector, specifically where trustworthiness and security are of importance. Written by leading scholars and practitioners, this edited volume presents challenges, benefits, regulations, frameworks, taxonomies, and applications of blockchain technology in the public domain. Specifically, the book analyzes the implementation of blockchain technologies in the public sector and the potential reforms it would bring. It discusses emerging technologies and their role in the implementation of blockchain technologies in the public sector. The book details the role of blockchain in the creation of public value in the delivery of public sector services. The book analyzes effects, impacts, and outcomes from the implementation of blockchain technologies in the public sector in select case studies. Providing up-to-date information on important developments regarding blockchain in government around the world, this volume will appeal to academics, researchers, policy-makers, public managers, international organizations, and technical experts looking to understand how blockchain can enhance public service delivery.

Advances in Production Management Systems. The Path to Digital Transformation and Innovation of Production Management Systems

IFIP WG 5.7 International Conference, APMS 2020, Novi Sad, Serbia, August 30 – September 3, 2020, Proceedings, Part I

Springer Nature The two-volume set IFIP AICT 591 and 592 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2020, held in Novi Sad, Serbia, in August/September 2020. The 164 papers presented were carefully reviewed and selected from 199 submissions. They discuss globally pressing issues in smart manufacturing, operations management, supply chain management, and Industry 4.0. The papers are organized in the following topical sections: Part I: advanced modelling, simulation and data analytics in production and supply networks; advanced, digital and smart manufacturing; digital and virtual quality management systems; cloud-manufacturing; cyber-physical production systems and digital twins; IIOT interoperability; supply chain planning and optimization; digital and smart supply chain management; intelligent logistics networks management; artificial intelligence and blockchain technologies in logistics and DSN; novel production planning and control approaches; machine learning and artificial intelligence; connected, smart factories of the future; manufacturing systems engineering: agile,

flexible, reconfigurable; digital assistance systems: augmented reality and virtual reality; circular products design and engineering; circular, green, sustainable manufacturing; environmental and social lifecycle assessments; socio-cultural aspects in production systems; data-driven manufacturing and services operations management; product-service systems in DSN; and collaborative design and engineering Part II: the Operator 4.0: new physical and cognitive evolutionary paths; digital transformation approaches in production management; digital transformation for more sustainable supply chains; data-driven applications in smart manufacturing and logistics systems; data-driven services: characteristics, trends and applications; the future of lean thinking and practice; digital lean manufacturing and its emerging practices; new reconfigurable, flexible or agile production systems in the era of industry 4.0; operations management in engineer-to-order manufacturing; production management in food supply chains; gastronomic service system design; product and asset life cycle management in the circular economy; and production ramp-up strategies for product

Fundamentals of Business Process Management

Springer This textbook covers the entire Business Process Management (BPM) lifecycle, from process identification to process monitoring, covering along the way process modelling, analysis, redesign and automation. Concepts, methods and tools from business management, computer science and industrial engineering are blended into one comprehensive and inter-disciplinary approach. The presentation is illustrated using the BPMN industry standard defined by the Object Management Group and widely endorsed by practitioners and vendors worldwide. In addition to explaining the relevant conceptual background, the book provides dozens of examples, more than 230 exercises – many with solutions – and numerous suggestions for further reading. This second edition includes extended and completely revised chapters on process identification, process discovery, qualitative process analysis, process redesign, process automation and process monitoring. A new chapter on BPM as an enterprise capability has been added, which expands the scope of the book to encompass topics such as the strategic alignment and governance of BPM initiatives. The textbook is the result of many years of combined teaching experience of the authors, both at the undergraduate and graduate levels as well as in the context of professional training. Students and professionals from both business management and computer science will benefit from the step-by-step style of the textbook and its focus on fundamental concepts and proven methods. Lecturers will appreciate the class-tested format and the additional teaching material available on the accompanying website.

Advances in Parallel & Distributed Processing, and Applications

Proceedings from PDPTA'20, CSC'20, MSV'20, and GCC'20

Springer Nature The book presents the proceedings of four conferences: The 26th International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'20), The 18th International Conference on Scientific Computing (CSC'20); The 17th International Conference on Modeling, Simulation and Visualization Methods (MSV'20); and The 16th International Conference on Grid, Cloud, and Cluster Computing (GCC'20). The conferences took place in Las Vegas, NV, USA, July 27-30, 2020. The conferences are part of the larger 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE'20), which features 20 major tracks. Authors include academics, researchers, professionals, and students. Presents the proceedings of four conferences as part of the 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE'20); Includes the research tracks Parallel and Distributed Processing, Scientific Computing, Modeling, Simulation and Visualization, and Grid, Cloud, and Cluster Computing; Features papers from PDPTA'20, CSC'20, MSV'20, and GCC'20.

Advances in Data Mining. Applications and Theoretical Aspects

17th Industrial Conference, ICDM 2017, New York, NY, USA, July 12-13, 2017, Proceedings

Springer This book constitutes the refereed proceedings of the 17th Industrial Conference on Advances in Data Mining, ICDM 2017, held in New York, NY, USA, in July 2017. The 27 revised full papers presented were carefully reviewed and selected from 71 submissions. The topics range from theoretical aspects of data mining to applications of data mining, such as in multimedia data, in marketing, in medicine, and in process control in industry and society.

Developments in Information & Knowledge Management for Business Applications

Volume 1

Springer Nature This book provides solutions to manage information competently in order to increase its business usage. The information/knowledge business is a highly-dynamic evolving industry, and the novel methodologies and practices for the business information processing, as well as application of mathematical models to the business analytics and efficient management, are the most essential for the decision-making and further development of this field. Consequently, in this series subline first volume, the authors study challenges and opportunities, as well as embrace different aspects of business information processing for an efficient enterprise management. The authors cover also methods and techniques, as well as strategies for the efficient business information processing for management. Besides, the authors analyse strategies for lowering business information/data loss, while improving customer satisfaction and maintenance levels. The major goal is to analyse the key aspects of managerial implications on the informational business on the continuous basis.

Conformance Checking and Diagnosis in Process Mining

Comparing Observed and Modeled Processes

Springer Process mining techniques can be used to discover, analyze and improve real processes, by extracting models from observed behavior. The aim of this book is conformance checking, one of the main areas of process mining. In conformance checking, existing process models are compared with actual observations of the process in order to assess their quality. Conformance checking techniques are a way to visualize the differences between assumed process represented in the model and the real process in the event log, pinpointing possible problems to address, and the business process management results that rely on these models. This book combines both application and research perspectives. It provides concrete use cases that illustrate the problems addressed by the techniques in the book, but at the same time, it contains complete conceptualization and formalization of the problem and the techniques, and through evaluations on the quality and the performance of the proposed techniques. Hence, this book brings the opportunity for business analysts willing to improve their organization processes, and also data scientists interested on the topic of process-oriented data science.

Recommender Systems Handbook

Springer Nature

Encyclopedia of Information Science and Technology, Fourth Edition

IGI Global In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

Process Mining

Data Science in Action

Springer This is the second edition of Wil van der Aalst's seminal book on process mining, which now discusses the field also in the broader context of data science and big data approaches. It includes several additions and updates, e.g. on inductive mining techniques, the notion of alignments, a considerably expanded section on software tools and a completely new chapter of process mining in the large. It is self-contained, while at the same time covering the entire process-mining spectrum from process discovery to predictive analytics. After a general introduction to data science and process mining in Part I, Part II provides the basics of business process modeling and data mining necessary to understand the remainder of the book. Next, Part III focuses on process discovery as the most important process mining task, while Part IV moves beyond discovering the control flow of processes, highlighting conformance checking, and organizational and time perspectives. Part V offers a guide to successfully applying process mining in practice, including an introduction to the widely used open-source tool ProM and several commercial products. Lastly, Part VI takes a step back, reflecting on the material presented and the key open challenges. Overall, this book provides a comprehensive overview of the state of the art in process mining. It is intended for business process analysts, business consultants, process managers, graduate students, and BPM researchers.

Interactive Process Mining in Healthcare

Springer Nature This book provides a practically applicable guide to the methodologies and technologies for the application of interactive process mining paradigm. Case studies are presented where this paradigm has been successfully applied in emergency medicine, surgery processes, human behavior modelling, strokes and outpatients' services, enabling the reader to develop a deep understanding of how to apply process mining technologies in healthcare to support them in inferring new knowledge from past actions, and providing accurate and personalized knowledge to improve their future clinical decision-making. Interactive Process Mining in Healthcare comprehensively covers how machine learning algorithms can be utilized to create real scientific evidence to improve daily healthcare protocols, and is a valuable resource for a variety of health professionals seeking to develop new methods to improve their clinical decision-making.

Advanced Control Techniques in Complex Engineering Systems: Theory and Applications

Dedicated to Professor Vsevolod M. Kuntsevich

Springer This book presents an authoritative collection of contributions by researchers from 16 different countries (Austria, Chile, Georgia, Germany, Mexico, Norway, P.R. of China, Poland, North Macedonia, Romania, Russia, Spain, Turkey, Ukraine, the United Kingdom and United States) that report on recent developments and new directions in advanced control systems, together with new theoretical findings, industrial applications and case studies on complex engineering systems. This book is dedicated to Professor Vsevolod Mykhailovych Kuntsevich, an Academician of the National Academy of Sciences of Ukraine, and President of the National Committee of the Ukrainian Association on Automatic Control, in recognition of his pioneering works, his great scientific and scholarly achievements, and his years of service to many scientific and professional communities, notably those involved in automation, cybernetics, control, management and, more specifically, the fundamentals and applications of tools and techniques for dealing with uncertain information, robustness, non-linearity, extremal systems, discrete control systems, adaptive control systems and others. Covering essential theories, methods and new challenges in control systems design, the book is not only a timely reference guide but also a source of new ideas and inspirations for graduate students and researchers alike. Its 15 chapters are grouped into four sections: (a) fundamental theoretical issues in complex engineering systems, (b) artificial intelligence and soft computing for control and decision-making systems, (c) advanced control techniques for industrial and collaborative automation, and (d) modern applications for management and information processing in complex systems. All chapters are intended to provide an easy-to-follow introduction to the topics addressed, including the most relevant references. At the same time, they reflect various aspects of the latest research work being conducted around the world and, therefore, provide information on the state of the art.

Designing Enterprise Information Systems

Merging Enterprise Modeling and Software Specification

Springer Nature This book brings together enterprise modeling and software specification, providing a conceptual background and methodological guidelines that concern the design of enterprise information systems. In this, two corresponding disciplines (enterprise engineering and software engineering) are considered in a complementary way. This is how the widely recognized gap between domain experts and software engineers could be effectively addressed. The content is, on the one hand, based on a conceptual invariance (embracing concepts whose essence transcends the barriers between social and technical disciplines) while on the other, the book is featuring a modeling duality, by bringing together social theories (that are underlying with regard to enterprise engineering) and computing paradigms (that are underlying as it concerns software engineering). In addition, the proposed approach as well as its guidelines and related notations further foster such enterprise-software modeling, by facilitating modeling generations and transformations. Considering unstructured business information in the beginning, the modeling process would progress through the methodological construction of enterprise models, to reach as far as a corresponding derivation of software specifications. Finally, the enterprise-software alignment is achieved in a component-based way, featuring a potential for re-using modeling constructs, such that the modeling effectiveness and efficiency are further stimulated. For the sake of grounding the presented studies, a case study and illustrative examples are considered. They are not only justifying the idea of bringing together (in a component-based way) enterprise modeling and software specification but they are also demonstrating various strengths and limitations of the proposed modeling approach. The book was mainly written for researchers and graduate students in enterprise information systems, and also for professionals whose work involves the specification and realization of such systems. In addition, researchers and practitioners entering these fields will benefit from the blended view on enterprise modeling and software specification, for the sake of an effective and efficient design of enterprise information systems.

Digital Personalized Health and Medicine

Proceedings of MIE 2020

IOS Press Digital health and medical informatics have grown in importance in recent years, and have now become central to the provision of effective healthcare around the world. This book presents the proceedings of the 30th Medical Informatics Europe conference (MIE). This edition of the conference, hosted by the European Federation for Medical Informatics (EFMI) since the 1970s, was due to be held in Geneva, Switzerland in April 2020, but as a result of measures to prevent the spread of the Covid19 pandemic, the conference itself had to be cancelled. Nevertheless, because this collection of papers offers a wealth of knowledge and experience across the full spectrum of digital health and medicine, it was decided to publish the submissions accepted in the review process and confirmed by the Scientific Program Committee for publication, and these are published here as planned. The 232 papers are themed under 6 section headings: biomedical data, tools and methods; supporting care delivery; health and prevention; precision medicine and public health; human factors and citizen centered digital health; and ethics, legal and societal aspects. A 7th section deals with the Swiss personalized health network, and section 8 includes the 125 posters accepted for the conference. Offering an overview of current trends and developments in digital health and medical informatics, the book provides a valuable information resource for researchers and health practitioners alike.

Workflow Patterns

The Definitive Guide

MIT Press A comprehensive guide to well-known workflow patterns: recurrent, generic business process constructs, described from the control-flow, data, and resource perspectives. The study of business processes has emerged as a highly effective approach to coordinating an organization's complex service- and knowledge-based activities. The growing field of business process management (BPM) focuses on methods and tools for designing, enacting, and analyzing business processes. This volume offers a definitive guide to the use of patterns, which synthesize the wide range of approaches to modeling business processes. It provides a unique and comprehensive introduction to the well-known workflow patterns collection—recurrent, generic constructs describing common business process modeling and

execution scenarios, presented in the form of problem-solution dialectics. The underlying principles of the patterns approach ensure that they are independent of any specific enabling technology, representational formalism, or modeling approach, and thus broadly applicable across the business process modeling and business process technology domains. The authors, drawing on extensive research done by the Workflow Patterns Initiative, offer a detailed introduction to the fundamentals of business process modeling and management; describe three major pattern catalogs, presented from control-flow, data, and resource perspectives; and survey related BPM patterns. The book, a companion to the authoritative Workflow Patterns website, will be an essential resource for both academics and practitioners working in business process modeling and business process management.

Conformance Checking

Relating Processes and Models

Springer This book introduces readers to the field of conformance checking as a whole and outlines the fundamental relation between modelled and recorded behaviour. Conformance checking interrelates the modelled and recorded behaviour of a given process and provides techniques and methods for comparing and analysing observed instances of a process in the presence of a model, independent of the model's origin. Its goal is to provide an overview of the essential techniques and methods in this field at an intuitive level, together with precise formalisations of its underlying principles. The book is divided into three parts, that are meant to cover different perspectives of the field of conformance checking. Part I presents a comprehensive yet accessible overview of the essential concepts used to interrelate modelled and recorded behaviour. It also serves as a reference for assessing how conformance checking efforts could be applied in specific domains. Next, Part II provides readers with detailed insights into algorithms for conformance checking, including the most commonly used formal notions and their instantiation for specific analysis questions. Lastly, Part III highlights applications that help to make sense of conformance checking results, thereby providing a necessary next step to increase the value of a given process model. They help to interpret the outcomes of conformance checking and incorporate them by means of enhancement and repair techniques. Providing the core building blocks of conformance checking and describing its main applications, this book mainly addresses students specializing in business process management, researchers entering process mining and conformance checking for the first time, and advanced professionals whose work involves process evaluation, modelling and optimization.

Deep Learning Applications with Practical Measured Results in Electronics Industries

MDPI This book collects 14 articles from the Special Issue entitled "Deep Learning Applications with Practical Measured Results in Electronics Industries" of Electronics. Topics covered in this Issue include four main parts: (1) environmental information analyses and predictions, (2) unmanned aerial vehicle (UAV) and object tracking applications, (3) measurement and denoising techniques, and (4) recommendation systems and education systems. These authors used and improved deep learning techniques (e.g., ResNet (deep residual network), Faster-RCNN (faster regions with convolutional neural network), LSTM (long short term memory), ConvLSTM (convolutional LSTM), GAN (generative adversarial network), etc.) to analyze and denoise measured data in a variety of applications and services (e.g., wind speed prediction, air quality prediction, underground mine applications, neural audio caption, etc.). Several practical experiments were conducted, and the results indicate that the performance of the presented deep learning methods is improved compared with the performance of conventional machine learning methods.

Data-Driven Process Discovery and Analysis

5th IFIP WG 2.6 International Symposium, SIMPDA 2015, Vienna, Austria, December 9-11, 2015, Revised Selected Papers

Springer This book constitutes the revised selected papers from the 5th IFIP WG 2.6 International Symposium on Data-Driven Process Discovery and Analysis, SIMPDA 2015, held in Vienna, Austria in December 2015. The 8 papers presented in this volume were carefully reviewed and selected from 22 submissions. They cover theoretical issues related to process representation, discovery and analysis, or provide practical and operational experiences in process discovery and analysis. They focus mainly on the adoption of process mining algorithms in conjunction and coordination with other techniques and methodologies.

Advanced Information Systems Engineering

34th International Conference, CAiSE 2022, Leuven, Belgium, June 6–10, 2022, Proceedings

Springer Nature

Enterprise, Business-Process and Information Systems Modeling

17th International Conference, BPMDS 2016, 21st International Conference, EMMSAD 2016, Held at CAiSE 2016, Ljubljana, Slovenia, June 13-14,2016 , Proceedings

Springer This book contains the refereed proceedings of the 17th International Conference on Business Process Modeling, Development and Support, BPMDS 2016, and the 21st International Conference on Exploring Modeling Methods for Systems Analysis and Design, EMMSAD 2016, held together with the 28th International Conference on Advanced Information Systems Engineering (CAiSE 2016) in Ljubljana, Slovenia, in June 2016. The focus theme for BPMDS 2016 papers was "Business Processes in a Connected World", for which three subthemes were identified: business processes for connecting people, connecting intelligent objects to business processes and connecting information/data/knowledge to business processes. The 17 full and 1 short paper accepted for BPMDS were selected from 48 submissions and are grouped into topical sections on process execution support; improving usability of process models; social and human perspectives; new directions in process modeling; consistency, correctness and compliance; process and data mining; and process variability. The intention of EMMSAD is to solicit papers related to the field of information systems analysis and design including numerous information modeling methods and notations that are typically evolving. These ongoing changes significantly impact the way information systems, enterprises, and business processes are being analyzed and designed in practice. The 12 full papers accepted for EMMSAD were chosen from 19 submissions and are grouped into topical sections on fundamental issues in modeling; requirements and regulations; enterprise and software ecosystem modeling; information and process model quality; meta-modeling and domain specific modeling and model composition; and modeling of architecture and design.

Systems, Software and Services Process Improvement

29th European Conference, EuroSPI 2022, Salzburg, Austria, August 31 – September 2, 2022, Proceedings

Springer Nature This volume constitutes the refereed proceedings of the 29th European Conference on Systems, Software and Services Process Improvement, EuroSPI 2022, held in Salzburg, Austria, in August-September 2022. The 49 full papers and 8 short papers presented were carefully reviewed and selected from 110 submissions. The papers are organized according to the following topical sections: SPI and emerging and multidisciplinary approaches to software engineering; digitalisation of industry, infrastructure and e-mobility; SPI and good/bad SPI practices in improvement; SPI and functional safety and cybersecurity; SPI and agile; SPI and standards and safety and security norms; SPI and team skills and diversity; SPI and recent innovations; virtual reality and augmented reality.

Handbook of Artificial Intelligence and Robotic Process Automation

Policy and Government Applications

Anthem Press President Putin's explicit declaration that the country that makes progress in artificial intelligence will rule the world has launched a new race for dominance. In this era of cognitive competition and total automation, every country understands that it must rapidly adopt AI or go bust. To stay competitive a country must have a strategy. But how should a government proceed? What areas it must focus on? Where should it even start? This book provides answers to these important, yet pertinent, questions and more. Presenting the viewpoints of global experts and thought leaders on key issues relating to AI and government policies, this book directs us to the future.

Soft Computing for Problem Solving

SocProS 2017, Volume 2

Springer This two-volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving, SocProS 2017. This conference is a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), the Indian Institute of Technology Roorkee, the South Asian University New Delhi and the National Institute of Technology Silchar, and brings together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions The book presents the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers in the areas including, but not limited to, algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It is a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.

Innovations in Smart Cities Applications Volume 4

The Proceedings of the 5th International Conference on Smart City Applications

Springer Nature This proceedings book is the fourth edition of a series of works which features emergent research trends and recent innovations related to smart city presented at the 5th International Conference on Smart City Applications SCA20 held in Safranbolu, Turkey. This book is composed of peer-reviewed chapters written by leading international scholars in the field of smart cities from around the world. This book covers all the smart city topics including Smart Citizenship, Smart Education, Smart Mobility, Smart Healthcare, Smart Mobility, Smart Security, Smart Earth Environment & Agriculture, Smart Economy, Smart Factory and Smart Recognition Systems. This book contains a special section intended for Covid-19 pandemic researches. This book edition is an invaluable resource for courses in computer science, electrical engineering and urban sciences for sustainable development.

Proceedings of Third International Conference on Sustainable Computing

SUSCOM 2021

Springer Nature The book includes a selection of the best papers presented at the Third International Conference on Sustainable Computing (SUSCOM 2021), held in Jaipur, India, during 19 20 March 2021. It covers topics like Internet of things (IoT); artificial system of security; smart storage and knowledge retrieval using data cloud; intelligent transport management; intelligent cognitive and bio-inspired computing and management science. The book is useful for peoples from academia, government bodies, healthcare and industry to discuss their future scope.

Cambridge Handbook of Routine Dynamics

A comprehensive introduction and overview of research in Routine Dynamics written by the central researchers in the field.

Accounting Information Systems

Cengage Learning As an accounting professional, you are expected to help organizations identify enterprise risks and provide quality assurance for the company's information systems. You can rely on ACCOUNTING INFORMATION SYSTEMS, 11E's clear presentation to help you understand the two issues most critical to accounting information systems in use today: enterprise systems and controls for maintaining those systems. ACCOUNTING INFORMATION SYSTEMS, 11E explores today's most intriguing accounting information systems (AIS) topics and details how these issues relate to business processes, information technology, strategic management, security, and internal controls. The authors focus on today's most important advancements, using a conversational tone rather than complex technical language to ensure you develop the solid foundation in AIS that you need to be successful. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Software Engineering for Variability Intensive Systems

Foundations and Applications

CRC Press This book addresses the challenges in the software engineering of variability-intensive systems. Variability-intensive systems can support different usage scenarios by accommodating different and unforeseen features and qualities. The book features academic and industrial contributions that discuss the challenges in developing, maintaining and evolving systems, cloud and mobile services for variability-intensive software systems and the scalability requirements they imply. The book explores software engineering approaches that can efficiently deal with variability-intensive systems as well as applications and use cases benefiting from variability-intensive systems.

Software Quality. The Future of Systems- and Software Development

8th International Conference, SWQD 2016, Vienna, Austria, January 18-21, 2016, Proceedings

Springer This book constitutes the refereed proceedings of the scientific track of the 8th Software Quality Days Conference, SWQD 2016, held in Vienna, Austria, in January 2016. The SWQD conference offers a range of comprehensive and valuable information by presenting new ideas from the latest research papers, keynote speeches by renowned academics and industry leaders, professional lectures, exhibits, and tutorials. The five scientific full papers accepted for SWQD were each peer reviewed by three or more reviewers and selected out of 13 high-quality submissions. Further, nine short papers were also presented and are included in this book. In addition, one keynote paper by Scott Ambler and Mark Lines is also included.

Entrepreneurship and innovation in the age of digital transformation

Cognitione Foundation PURPOSE: Explore what entrepreneurship and success factors can help drive business to resilience and stability and achieve competitive advantage through innovation in different countries and business realities in the era of digital transformation and turbulent times. METHODOLOGY: Based on the narrative literature review, we present research findings concerning new strategies and outlooks for business innovation in times of many unknowns. Each organization wants to find its way to gain success and create its unique business model, which can capture value creation and innovativeness and be more adaptive, resilient, and stable in critical moments and sustainable over time. FINDINGS: The articles presented in this issue explore the essential factors of business innovation

and success in different organizations and the environments in which these businesses function. IMPLICATIONS FOR THEORY AND PRACTICE: This article synthesizes the presented research field's importance and relevance, connecting its theoretical background with practical research. Recommendations and implications for future trends of this research stream might also be helpful for professionals and academicians. ORIGINALITY AND VALUE: The novel studies presented in this issue were done in five different (developing and developed) countries and business sectors that present human-based and non-human-based factors as crucial factors needed to empower business transformation in a complex world. Each group of elements is essential in business success, and their components are interdependent. We need to look at the interactions and interdependencies of their components in a dynamic and network form and cannot simplify the reality, focusing only on one group of business components and ignoring the other. These unique studies provide a valuable outlook to establish dynamic, adaptive business pathways towards a sustainable and resilient organizational future and propose future research paths needed to execute structural changes in businesses. Keywords: business model, innovation, critical success factors, digital transformation, knowledge management, talent management, competitiveness, leadership, transformation, change management, VUCA Table of Contents Business innovation and critical success factors in the era of digital transformation and turbulent times 7 Anna Florek-Paszkowska, Anna Ujwary-Gil, Bianka Godlewska-Dzioboń Survival of the funded: Econometric analysis of startup longevity and success 29 Daniel Keogh, Daniel K.N. Johnson The use of process benchmarking in the water industry to introduce changes in the digitization of the company's value chain 51 Natalia R. Potoczek Entrepreneurial self-efficacy and entrepreneurial intention: The mediating role of the need for independence 91 Victor Osadolor, Emmanuel K. Agbaeze, Ejikeme Emmanuel Isichei, Samuel Taiwo Olabosinde Application of knowledge management tools: Comparative analysis of small, medium, and large enterprises 121 Natalia Sytnik, Maryna Kravchenko Innovation among SMEs in Finland: The impact of stakeholder engagement and firm-level characteristics 157 Hannu Littunen, Timo Tohmo, Esa Storhammar

Lecture Notes in Computational Intelligence and Decision Making

Proceedings of the XV International Scientific Conference "Intellectual Systems of Decision Making and Problems of Computational Intelligence" (ISDMCI'2019), Ukraine, May 21–25, 2019

Springer Information and computer technologies for data analysis and processing in various fields of data mining and machine learning generates the conditions for increasing the effectiveness of information processing by making it faster and more accurate. The book includes 49 scientific papers presenting the latest research in the fields of data mining, machine learning and decision-making. Divided into three sections: "Analysis and Modeling of Complex Systems and Processes"; "Theoretical and Applied Aspects of Decision-Making Systems"; and "Computational Intelligence and Inductive Modeling", the book is of interest to scientists and developers in the field.

Software Engineering Perspectives and Application in Intelligent Systems

Proceedings of the 5th Computer Science On-line Conference 2016 (CSOC2016), Vol 2

Springer The volume Software Engineering Perspectives and Application in Intelligent Systems presents new approaches and methods to real-world problems, and in particular, exploratory research that describes novel approaches in the field of Software Engineering. Particular emphasis is laid on modern trends in selected fields of interest. New algorithms or methods in a variety of fields are also presented. The 5th Computer Science On-line Conference (CSOC 2016) is intended to provide an international forum for discussions on the latest research results in all areas related to Computer Science. The addressed topics are the theoretical aspects and applications of Computer Science, Artificial Intelligences, Cybernetics, Automation Control Theory and Software Engineering.

Robotic Process Automation

Management, Technology, Applications

Walter de Gruyter GmbH & Co KG This book brings together experts from research and practice. It includes the design of innovative Robot Process Automation (RPA) concepts, the discussion of related research fields (e.g., Artificial Intelligence, AI), the evaluation of existing software products, and findings from real-life implementation projects. Similar to the substitution of physical work in manufacturing (blue collar automation), Robotic Process Automation tries to substitute intellectual work in office and administration processes with software robots (white-collar automation). The starting point for the development of RPA was the observation that – despite the use of process-oriented enterprise systems (such as ERP, CRM and BPM systems) – additional manual activities are still indispensable today. In the RPA approach, these manual activities are learned and automated by software robots, either by defining rules or by observing manual activities. RPA is related to business process management, machine learning, and artificial intelligence. Tools for RPA originated from dedicated stand-alone software. Today, RPA functionalities are also integrated into elaborated process management suites. From a conceptual perspective, RPA can be structured into input components (sensors in the wide sense), an intelligence center, and output components (actuators in the wide sense). From a strategic perspective, the impact of RPA can be related to the support of existing tasks, the complete substitution of human activities, and the innovation of processes as well as business models. At present, high expectations are related to the use of RPA in the improvement of software-supported business processes. Manual activities are learned and automated by software robots that interact with existing applications via the presentation layer. In combination with artificial intelligence (AI) as well as innovative interfaces (e. g., voice recognition) RPA creates a novel level of automation for office and administration processes. Its benefit potential reaches a return on investment (ROI) up-to 800% that is documented in various case studies.

The Role of Digital Technologies in Shaping the Post-Pandemic World

21st IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2022, Newcastle upon Tyne, UK, September 13–14, 2022, Proceedings

Springer Nature This book constitutes the refereed proceedings of the 21st IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2022, which took place Newcastle-upon-Tyne, UK, in September 2022. The 37 papers presented in this volume were carefully reviewed and selected from 72 submissions. They were organized in topical sections as follows: Artificial intelligence; Data and Analytics; Careers and ICT; Digital Innovation and Transformation; Electronic Services; Health and Wellbeing; Pandemic; Privacy, Trust and Security.

Involving women and youth in responsible investment in agriculture and food systems in Ghana

Food & Agriculture Org. Women and youth-led agri-enterprises (WYE) (which may also be operating as family businesses) in agricultural value chains have been identified as catalysts for rural transformation given their potential for creating employment and stimulating value addition both on and off-farm. Given that agriculture and food systems are likely to remain the key generators of employment in Ghana over the coming decades, and that 80% of all activities in the midstream of food value chain are undertaken by SMEs in Africa. It is very much necessary to generate the evidence to support the argument that family, women and youth-led agribusinesses have a key role to play in the rural transformation pathway underway in Ghana.