
Business Information Systems Workshops Bis 2015

International Workshops Poznan Poland June 24 26 2015

Revised Papers Lecture Notes In Business Information Processing

Conformance Checking and Diagnosis in Process Mining

Algorithms and Models for Network Data and Link Analysis

Business Information Systems Workshops

Information Systems Architecture and Technology: Proceedings of 38th International Conference on Information Systems Architecture and Technology - ISAT 2017

Business Information Systems

Business Information Systems Workshops

The Complete Business Process Handbook

Business Information Systems Workshops

Data Science: New Issues, Challenges and Applications

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Information Systems Architecture and Technology: Proceedings of 39th International Conference on Information Systems Architecture and Technology - ISAT 2018

Handbook of Research on Smart Technology Models for Business and Industry

Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation

Digital Entrepreneurship

Business Information Systems Workshops

Stretching from Punch Card/Programming to Business Data Processing (BDP) to Business Information Systems (BIS).

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**Conformance Checking and Diagnosis
in Process Mining** Cambridge University
Press
The NCITS Accredited Standards

Committee H7 Object Information
Management, now part of NCITS T3 Open
Distributed Processing, and the Object
Management Group BUbusiness Object
Domain Task Force (BODTF) jointly
sponsored the Fifth Annual OOPSLA

Workshop on Business Object Component Design and Implementation. The focus of the workshop was on design and implementation of business object component frameworks and architectures. Key aspects discussed included:

- What is a comprehensive definition of a business object component?
- Are the four layers (user, workspace, enterprise, resource) presented at the OOPSLA'98 workshop the right way to layer a business object component system?
- How is a business object component implemented across these layers? What are the associated artefacts? Are there different object models representing the same business object component in different layers?
- What are the dependencies between business object components? How can they be plug and play given these dependencies? How can they be flexible and adaptive? How do they participate in workflow systems?
- How will the emergence of a web-based distributed object-computing infrastructure based on XML, influence business object component architectures? In particular, is the W3C WebBroker proposal appropriate for distributed business object component

computing? The aim of the workshop was to:

- Enhance the pattern literature on the specification, design, and implementation of interoperable, plug and play, distributed business object components.

Algorithms and Models for Network Data and Link Analysis Springer

This three-volume set of books presents advances in the development of concepts and techniques in the area of new technologies and contemporary information system architectures. It guides readers through solving specific research and analytical problems to obtain useful knowledge and business value from the data. Each chapter provides an analysis of a specific technical problem, followed by the numerical analysis, simulation and implementation of the solution to the problem. The books constitute the refereed proceedings of the 2017 38th International Conference "Information Systems Architecture and Technology," or ISAT 2017, held on September 17-19, 2017 in Szklarska Poręba, Poland. The conference was organized by the Computer Science and Management Systems Departments, Faculty of Computer Science and Management,

Wroclaw University of Technology, Poland. The papers have been organized into topical parts: Part I— includes discourses on topics including, but not limited to, Artificial Intelligence Methods, Knowledge Discovery and Data Mining, Big Data, Knowledge Discovery and Data Mining, Knowledge Based Management, Internet of Things, Cloud Computing and High Performance Computing, Distributed Computer Systems, Content Delivery Networks, and Service Oriented Computing. Part II—addresses topics including, but not limited to, System Modelling for Control, Recognition and Decision Support, Mathematical Modelling in Computer System Design, Service Oriented Systems and Cloud Computing and Complex Process Modeling. Part III—deals with topics including, but not limited to, Modeling of Manufacturing Processes, Modeling an Investment Decision Process, Management of Innovation, Management of Organization. *Business Information Systems Workshops* Springer Nature

This book constitutes the refereed proceedings of the five workshops that were organized in conjunction with the

International Conference on Business Information Systems, BIS 2014, which took place in Larnaca, Cyprus, in May 2014. The 27 papers in this volume were carefully reviewed and selected from 53 submissions and were revised and extended after the event. The workshop topics covered applications and economics of knowledge-based technologies (AKTB), business and IT alignment (BITA), digital currencies (DC), modern applications of business information systems (MODAPP), and tools for setting up and running a business in cloud computing (TSRB). In addition a keynote paper is included in this book.

Information Systems Architecture and Technology: Proceedings of 38th International Conference on Information Systems Architecture and Technology - ISAT 2017 Springer

This book constitutes revised papers from the seven workshops and one accompanying event which took place at the 21st International Conference on Business Information Systems, BIS 2018, held in Berlin, Germany, in July 2018. Overall across all workshops, 58 out of 122 papers were accepted. The workshops

included in this volume are: AKTB 2018 - 10th Workshop on Applications of Knowledge-Based Technologies in Business BITA 2018 - 9th Workshop on Business and IT Alignment BSCT 2018 - 1st Workshop on Blockchain and Smart Contract Technologies IDEA 2018 - 4th International Workshop on Digital Enterprise Engineering and Architecture IDEATE 2018 - 3rd Workshop on Big Data and Business Analytics Ecosystems SciBOWater 2018 - Scientific Challenges & Business Opportunities in Water Management QOD 2018 - 1st Workshop on Quality of Open Data In addition, one keynote speech in full-paper length and contributions from the Doctoral Consortium are included

Business Information Systems Springer Separation distinction between the roles of the producer and consumer has become blurred with the development of new science and technologies enabling the emergence of the prosumer, or the active consumer. In the IT sector, the role of the end-user has broadened to include innovation and development practices in addition to the traditional consumer activities. As such, businesses must create

opportunities for product development and innovation by the consumers. Frameworks of IT Prosumption for Business Development investigates the latest empirical research on active use of information technology resources, enabling users with new methodologies, tools, and opportunities to impact application development processes. The objective of this reference book is to mobilize end-users to take a more active role in their own IT solutions, which will in turn assist in the development of best practices in IT at all levels.

Business Information Systems Workshops Springer Science & Business Media Advances in machine learning techniques and ever-increasing computing power has helped create a new generation of hardware and software technologies with practical applications for nearly every industry. As the progress has, in turn, excited the interest of venture investors, technology firms, and a growing number of clients, implementing intelligent automation in both physical and information systems has become a must in business. Handbook of Research on Smart Technology Models for Business and

Industry is an essential reference source that discusses relevant abstract frameworks and the latest experimental research findings in theory, mathematical models, software applications, and prototypes in the area of smart technologies. Featuring research on topics such as digital security, renewable energy, and intelligence management, this book is ideally designed for machine learning specialists, industrial experts, data scientists, researchers, academicians, students, and business professionals seeking coverage on current smart technology models.

The Complete Business Process Handbook Springer Science & Business Media

This book presents selected examples of digitalization in the age of digital change. It is divided into two sections: "Digital Innovation," which features new technologies that stimulate and enable new business opportunities; and "Digital Business Transformation," comprising business and management concepts that employ specific technological solutions for their practical implementation. Combining new insights from research, teaching and

management, including digital transformation, e-business, knowledge representation, human-computer interaction, and business optimization, the book highlights the breadth of research as well as its meaningful and relevant transfer into practice. It is intended for academics seeking inspiration, as well as for leaders wanting to tap the potential of the latest trends to take society and their business to the next level.

Business Information Systems Workshops
Taylor & Francis

This open access book explores the global challenges and experiences related to digital entrepreneurial activities, using carefully selected examples from leading companies and economies that shape world business today and tomorrow. Digital entrepreneurship and the companies steering it have an enormous global impact; they promise to transform the business world and change the way we communicate with each other. These companies use digitalization and artificial intelligence to enhance the quality of decisions and augment their business and customer operations. This book demonstrates how cloud services are

continuing to evolve; how cryptocurrencies are traded in the banking industry; how platforms are created to commercialize business, and how, taken together, these developments provide new opportunities in the digitalized era. Further, it discusses a wide range of digital factors changing the way businesses operate, including artificial intelligence, chatbots, voice search, augmented and virtual reality, as well as cyber threats and data privacy management. "Digitalization mirrors the Industrial Revolution's impact. This book provides a complement of perspectives on the opportunities emanating from such a deep seated change in our economy. It is a comprehensive collection of thought leadership mapped into a very useful framework. Scholars, digital entrepreneurs and practitioners will benefit from this timely work." Gina O'Connor, Professor of Innovation Management at Babson College, USA "This book defines and delineates the requirements for companies to enable their businesses to succeed in a post-COVID19 world. This book deftly examines how to accomplish and achieve digital entrepreneurship by leveraging cloud computing, AI, IoT and other critical

technologies. This is truly a unique “must-read” book because it goes beyond theory and provides practical examples.” Charlie Isaacs, CTO of Customer Connection at Salesforce.com, USA "This book provides digital entrepreneurs useful guidance identifying, validating and building their venture. The international authors developed new perspectives on digital entrepreneurship that can support to create impact ventures.” Felix Staeritz, CEO FoundersLane, Member of the World Economic Forum Digital Leaders Board and bestselling author of FightBack, Germany

Data Science: New Issues, Challenges and Applications Springer Nature

This book constitutes the refereed proceedings of the four workshops that were organized in conjunction with the International Conference on Business Information Systems, BIS 2012, which took place in Vilnius, Lithuania, May 21-23, 2012. In addition, the papers from the Future Internet Symposium, which was organized in conjunction with BIS 2012, are also included. BIS workshops give researchers the opportunity to share their preliminary ideas and first experimental

results, and discuss research hypotheses with a highly focused audience. The 24 papers were carefully reviewed and selected from 63 submissions and were revised and extended after the event. The workshop topics covered applications and economics of knowledge-based technologies (AKTB), business and IT alignment (BITA), enterprise systems for higher education (ESHE), and formal semantics for future enterprises (FSFE). In addition, one invited paper from BITA is also included in this volume.

Business Information Systems Workshops
Springer

This book contains 16 chapters by researchers working in various fields of data science. They focus on theory and applications in language technologies, optimization, computational thinking, intelligent decision support systems, decomposition of signals, model-driven development methodologies, interoperability of enterprise applications, anomaly detection in financial markets, 3D virtual reality, monitoring of environmental data, convolutional neural networks, knowledge storage, data stream classification, and security in social

networking. The respective papers highlight a wealth of issues in, and applications of, data science. Modern technologies allow us to store and transfer large amounts of data quickly. They can be very diverse - images, numbers, streaming, related to human behavior and physiological parameters, etc. Whether the data is just raw numbers, crude images, or will help solve current problems and predict future developments, depends on whether we can effectively process and analyze it. Data science is evolving rapidly. However, it is still a very young field. In particular, data science is concerned with visualizations, statistics, pattern recognition, neurocomputing, image analysis, machine learning, artificial intelligence, databases and data processing, data mining, big data analytics, and knowledge discovery in databases. It also has many interfaces with optimization, block chaining, cyber-social and cyber-physical systems, Internet of Things (IoT), social computing, high-performance computing, in-memory key-value stores, cloud computing, social computing, data feeds, overlay networks, cognitive computing, crowdsourcing

analysis, log analysis, container-based virtualization, and lifetime value modeling. Again, all of these areas are highly interrelated. In addition, data science is now expanding to new fields of application: chemical engineering, biotechnology, building energy management, materials microscopy, geographic research, learning analytics, radiology, metal design, ecosystem homeostasis investigation, and many others.

Business Information Systems Workshops
Springer

The volume presents a collection of 44 peer-reviewed articles from the First International Conference on Intelligent Systems in Production Engineering and Maintenance (ISPEM 2017). ISPEM 2017 was organized by the Faculty of Mechanical Engineering, Wrocław University of Science and Technology and was held in Wrocław (Poland) on 28–29 September 2017. The main topics of the conference included the possibility of using widely understood intelligent methods in production engineering. New solutions for innovative plants, research results and case studies taking into

account advances in production and maintenance from the point of view of Industry 4.0 were presented and discussed—with special attention paid to applications of intelligent systems, methods and tools in production engineering, maintenance, logistics, quality management, information systems, and product development. The volume is divided into two parts: 1. Intelligent Systems in Production Engineering 2. Intelligent Systems in Maintenance This book is an excellent reference resource for scientists in the field of manufacturing engineering and for top managers in production enterprises.

Information Systems Architecture and Technology: Proceedings of 39th International Conference on Information Systems Architecture and Technology - ISAT 2018 Springer Nature

This Online Course Pack consists of Business Information Systems, 5/e by Graham Curtis and David Cobham (ISBN: 0273687921), plus access to a Pearson Education Online Course (ISBN: 027370009X). This text helps students to gain a comprehensive understanding of how information systems can aid the

realisation of business objectives. The book covers BIS from a business, a technical and a systems development perspective. With balanced and clear coverage of the technical systems aspects of BIS and the more managerial topics, this well-established text provides a solid coverage of the topic from systems analysis design and planning to data mining, business intelligence and knowledge management. Companion website includes multiple choice questions, hints to the questions in the book, weblinks, online glossary and additional case studies Suitable to students taking a BIS degree or a BIS module on a business or computing degree.

Handbook of Research on Smart Technology Models for Business and Industry Springer

This book constitutes revised papers from the eight workshops which were held during June 2021 at the 24th International Conference on Business Information Systems, BIS 2021. The conference was planned to take place in Hannover, Germany, and changed to a fully online event due to the COVID-19 pandemic.

There was a total of 67 submissions to all workshops of which 31 papers were accepted for publication. The workshops included in this volume are: AKTB 2021: 12th Workshop on Applications of Knowledge-Based Technologies in Business; BisEd 2021: BIS Education: Trends and Challenges; DigBD 2021: 1st Workshop on Digitization in the Flux of Big Data Scenarios; DigEx 2021: 3rd International Workshop on transforming the Digital Customer Experience; iCRM 2021: 6th International Workshop on Integrated Social CRM; QOD 2021: 4th Workshop on Quality of Open Data; BITA 2021: 12th Workshop on Business and IT Alignment; BSCT 2021: 4th Workshop on Blockchain and Smart Contract Technologies.

Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation Business Information Systems Workshops

This book investigates what enterprises can do and/or what should it be capable of in order to accelerate organizational changes. Therefore, a capability-based method is developed, which assists in the identification, structuring and

management of capabilities. The approach is embedded in a process comprising four building blocks that provide appropriate procedures, concepts and supporting tools evolved from theory and practical use cases. The guide represents a flexible method for capability newcomers and experienced audiences to optimize enterprises' economic impacts of EAM supporting the alignment of business and IT.

Digital Entrepreneurship Springer Business information systems is a rapidly developing domain. There are many topics that deserve attention but haven't yet found a place in canonical research. Workshops give researchers the possibility to share preliminary ideas, first - experimental results, or to discuss research hypotheses. Discussions held during presentations strengthen the paper and prepare it for publication. From our experience, workshops are a perfect instrument with which to create a community around very specific research topics, thus offering the opportunity to promote it. Topics that do not find critical feedback at the main International Conference on Business

Information Systems (BIS) may experience fruitful discussion when confronted with a well-focused audience. Over the last few decades, business information systems have been one of the most important factors of the transition toward a knowledge-based economy. At the same time they have been subject to continuous rapid development and innovation driven both by industry and by academia. For the last 12 years these innovations were carefully observed but also shaped by researchers attending BIS yearly.

Business Information Systems Workshops Springer

The Complete Business Process Handbook is the most comprehensive body of knowledge on business processes with revealing new research. Written as a practical guide for Executives, Practitioners, Managers and Students by the authorities that have shaped the way we think and work with process today. It stands out as a masterpiece, being part of the BPM bachelor and master degree curriculum at universities around the world, with revealing academic research and insight from the leaders in the market. This book provides everything you need to

know about the processes and frameworks, methods, and approaches to implement BPM. Through real-world examples, best practices, LEADing practices and advice from experts, readers will understand how BPM works and how to best use it to their advantage. Cases from industry leaders and innovators show how early adopters of LEADing Practices improved their businesses by using BPM technology and methodology. As the first of three volumes, this book represents the most comprehensive body of knowledge published on business process. Following closely behind, the second volume uniquely bridges theory with how BPM is applied today with the most extensive information on extended BPM. The third volume will explore award winning real-life examples of leading business process practices and how it can be replaced to your advantage. Learn what Business Process is and how to get started Comprehensive historical process evolution In-depth look at the Process Anatomy, Semantics and Ontology Find out how to link Strategy to Operation with value driven BPM Uncover how to establish a way of Thinking, Working, Modelling and

Implementation Explore comprehensive Frameworks, Methods and Approaches How to build BPM competencies and establish a Center of Excellence Discover how to apply Social BPM, Sustainable and Evidence based BPM Learn how Value & Performance Measurement and Management Learn how to roll-out and deploy process Explore how to enable Process Owners, Roles and Knowledge Workers Discover how to Process and Application Modelling Uncover Process Lifecycle, Maturity, Alignment and Continuous Improvement Practical continuous improvement with the way of Governance Future BPM trends that will affect business Explore the BPM Body of Knowledge Stretching from Punch Card/Programming to Business Data Processing (BDP) to Business Information Systems (BIS). Springer This book constitutes the refereed proceedings of the 1st International Congress on Blockchain and Applications 2021, BLOCKCHAIN'21, held in Salamanca, Spain, in October 2021. Among the scientific community, blockchain and artificial intelligence are a promising

combination that will transform the production and manufacturing industry, media, finance, insurance, e-government, etc. Nevertheless, there is no consensus with schemes or best practices that would specify how blockchain and artificial intelligence should be used together. The 38 full papers presented were carefully reviewed and selected from over 44 submissions. They contain the latest advances on blockchain and artificial intelligence and on their application domains, exploring innovative ideas, guidelines, theories, models, technologies, and tools and identifying critical issues and challenges that researchers and practitioners must deal with in future research. Business Information Systems Workshops Springer Nature The world's oldest undergraduate degree program in data processing and information systems at Mississippi State University turned fifty years old in 2013. In this paper, we review the pioneering activities of the program's founder, Charles Moore, and provide insights into his foresight about the potential importance of information systems to

business organizations. We explain how the program's founding marked a shift in the epistemological view of information systems education in the mid-1960s. We show the course offerings of business data processing and information systems and the timeline at MSU over the past five decades. We also share how his efforts are instilled in the continuing development of the business information systems program at Mississippi State University to this day. *Business Information Systems Workshops* Springer

This book constitutes the refereed proceedings of the three workshops that were organized in conjunction with the International Conference on Business

Information Systems, BIS 2011, which took place in Poznań, Poland, June 15-17, 2011. The 18 workshop papers presented were carefully reviewed and selected from 38 submissions. The topics covered are applications and economics of knowledge-based technologies (AKTB), business and IT alignment (BITA), and legal information systems (LIT). In addition, eight papers from the co-located Business Process and Services Computing Conference (BPSC) are also included in this volume.

Business Information Systems Workshops Springer

This book constitutes revised papers from the five workshops which were held during June 2020 at the 23rd International Conference on Business Information

Systems, BIS 2020. The conference was planned to take place in Colorado Springs, CO, USA. Due to the COVID-19 pandemic it changed to a virtual format. There was a total of 54 submissions to all workshops of which 26 papers were accepted for publication. The workshops included in this volume are: BITA 2020: 11th Workshop on Business and IT Alignment BSCT 2020: 3rd Workshop on Blockchain and Smart Contract Technologies DigEX 2020: 2nd International Workshop on transforming the Digital Customer Experience iCRM 2020: 5th International Workshop on Intelligent Data Analysis in Integrated Social CRM QOD 2020: 3rd Workshop on Quality of Open Data

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