

## Enabling Flexibility In Process Aware Information Systems Challenges Methods Technologies

29th International Conference, CAISE 2017, Essen, Germany, June 12-16, 2017, Proceedings  
 Information Systems in the Big Data Era  
 13th International Conference, BPM 2015, Innsbruck, Austria, August 31 -- September 3, 2015, Proceedings  
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 S-BPM ONE - Education and Industrial Developments  
 BPM 2015, 13th International Workshops, Innsbruck, Austria, August 31 - September 3, 2015, Revised Papers  
 The Definitive Guide  
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 Business Process Management  
 Challenges, Methods, Technologies  
 Enterprise, Business-Process and Information Systems Modeling  
 Enabling Process Management for Loosely Framed Knowledge-intensive Processes  
 16th International Conference, BPMDS 2015, 20th International Conference, EMMSAD 2015, Held at CAISE 2015, Stockholm, Sweden, June 8-9, 2015, Proceedings  
 Data Science in Action  
 Concepts, Methods, and Technologies  
 Process Modeling and Management for Healthcare  
 13th International Joint Conference, ICETE 2016, Lisbon, Portugal, July 26-28, 2016, Revised Selected Papers  
 On the Move to Meaningful Internet Systems: OTM 2014 Workshops  
 E-Business and Telecommunications  
 25 Years of CAISE  
 Business Process Management

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### ASIA ZANDER

#### **29th International Conference, CAISE 2017, Essen, Germany, June 12-16, 2017, Proceedings** Springer

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.

*Information Systems in the Big Data Era* IGI Global

This book constitutes revised papers from the eleven International Workshops held at the 15th International Conference on Business Process Management, BPM 2017, in Barcelona, Spain, in September 2017: BPAI 2017 - 1st International Workshop on Business Process Innovation with Artificial Intelligence; BPI 2017 - 13th International Workshop on Business Process Intelligence; BP-Meet-IoT 2017 - 1st International Workshop on Ubiquitous Business Processes Meeting Internet-of-

Things; BPMS2 2017 - 10th Workshop on Social and Human Aspects of Business Process Management; - CBPM 2017 - 1st International Workshop on Cognitive Business Process Management; CCABPM 2017 - 1st International Workshop on Cross-cutting Aspects of Business Process Modeling; DeHMiMoP 2017 - 5th International Workshop on Declarative/Decision/Hybrid Mining & Modeling for Business Processes; QD-PA 2017 - 1st International Workshop on Quality Data for Process Analytics; REBPM 2017 - 3rd International Workshop on Interrelations between Requirements Engineering and Business Process Management; SPBP 2017 - 1st Workshop on Security and Privacy-enhanced Business Process Management; TAProViz-PQ-IWPE 2017 -Joint International BPM 2017 Workshops on Theory and Application of Visualizations and Human-centric Aspects in Processes (TAProViz'17), Process Querying (PQ'17) and Process Engineering (IWPE17). The 44 full and 11 short papers presented in this volume were carefully reviewed and selected from 99 submissions.

**13th International Conference, BPM 2015, Innsbruck, Austria, August 31 -- September 3, 2015, Proceedings** Springer Nature

This volume constitutes the refereed proceedings of the following 9 international workshops: OTM

Academy, OTM Industry Case Studies Program, Cloud and Trusted Computing, C&TC, Enterprise Integration, Interoperability, and Networking, EIZN, Industrial and Business Applications of Semantic Web Technologies, INBAST, Information Systems, om Distributed Environment, ISDE, Methods, Evaluation, Tools and Applications for the Creation and Consumption of Structured Data for the e-Society, META4eS, Mobile and Social Computing for collaborative interactions, MSC, and Ontology Content, OnToContent 2014. These workshops were held as associated events at OTM 2014, the federated conferences "On The Move Towards Meaningful Internet Systems and Ubiquitous Computing", in Amantea, Italy, in October 2014. The 56 full papers presented together with 8 short papers, 6 posters and 5 keynotes were carefully reviewed and selected from a total of 96 submissions. The focus of the workshops were on the following subjects models for interoperable infrastructures, applications, privacy and access control, reliability and performance, cloud and configuration management, interoperability in (System-of-)Systems, distributed information systems applications, architecture and process in distributed information system, distributed information system development and operational environment, ontology is use for eSociety, knowledge management and applications for eSociety, social networks and social services, social and mobile intelligence, and multimodal interaction and collaboration.

**Enabling Flexibility in Process-Aware Information Systems** IGI Global

This book constitutes the proceedings of the BPM Forum from the International Conference on Business Process Management, BPM 2016, held in Rio de Janeiro, September 2016. The BPM Forum aims at gathering papers that showcase fresh ideas and emerging topics in BPM. They have to demonstrate substantial potential for stimulating interesting discussions, even if they are not yet completely matured. This way, 13 full papers were selected from 106 submissions, where each paper was reviewed by four PC members and by one Senior PC member who moderated the discussion and wrote the meta-review. The selected papers in this volume cover topics related to process modeling, process execution and management aspects of the BPM discipline.

**Service-Oriented Computing - ICISOC Workshops 2012** Springer

This book constitutes revised selected papers from the 10th International Conference on Web Information Systems and Technologies, WEBIST 2014, held in Barcelona, Spain, April 2014, organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC), and technically sponsored by the European Research Center for Information Systems (ERCIS). The purpose of the WEBIST series of conferences is to bring together researchers, engineers and practitioners interested in technological advances and business applications of web-based information systems. The 21 papers presented in this volume were carefully reviewed and selected originally 153 paper submissions. They were organized in topical sections names, internet technology; web interfaces and applications; society, e-business and e-government; web intelligence; and mobile information systems. The book also contains two invited talks in full-paper length.

Springer Science & Business Media

This book constitutes the proceedings of the 13th International Conference on Business Process Management, BPM 2015, held in Innsbruck, Austria, in August/September 2015. The 21 regular papers, 7 short papers and 2 industrial papers included in this volume were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on runtime process management, process modeling, process modeling discovery, business process models and analytics, BPM in industry, process compliance and deviations, emerging and practical areas of BPM, and process monitoring.

**Future Data and Security Engineering** Springer

This book constitutes the refereed proceedings of the Third International Conference on Information Systems for Crisis Response and Management in Mediterranean Countries, ISCRAM-med 2016, held in Madrid, Spain, in October 2016. Information systems and technologies can play a key role in crisis management in order to support preparation, response, mitigation and recovery processes. Yet technology is not enough to guarantee a better management process, and therefore the conference does not only focus on engineering technologies, but also on their application and practical experiences. The 12 full and 8 short papers presented in this volume were carefully reviewed and selected from 36 submissions. They are organized in topical sections on mobile apps for citizens, modeling and simulation, development of information systems, information and knowledge management, collaboration and coordination, social computing, and issues in humanitarian crisis.

*Confederated International Conferences: CoopIS, DOA-Trusted Cloud and ODBASE 2013, Graz,*

*Austria, September 9-13, 2013. Proceedings.* Springer

Conceptual modeling has always been one of the main issues in information systems engineering as it aims to describe the general knowledge of the system at an abstract level that facilitates user understanding and software development. This collection of selected papers provides a comprehensive and extremely readable overview of what conceptual modeling is and perspectives on making it more and more relevant in our society. It covers topics like modeling the human genome, blockchain technology, model-driven software development, data integration, and wiki-like repositories and demonstrates the general applicability of conceptual modeling to various problems in diverse domains. Overall, this book is a source of inspiration for everybody in academia working on the vision of creating a strong, fruitful and creative community of conceptual modelers. With this book the editors and authors want to honor Prof. Antoni Olivé for his enormous and ongoing contributions to the conceptual modeling discipline. It was presented to him on the occasion of his keynote at ER 2017 in Valencia, a conference that he has contributed to and supported for over 20 years. Thank you very much to Antoni for so many years of cooperation and friendship.

**5th International IFIP Working Conference, IWEI 2013, Enschede, The Netherlands, March 27-28, 2013, Proceedings** Springer

Enabling Flexibility in Process-Aware Information Systems Challenges, Methods, Technologies Springer Science & Business Media

**Information Systems for Crisis Response and Management in Mediterranean Countries** Springer

This book constitutes the refereed proceedings of the 13th International Joint Conference on E-Business and Telecommunications, ICETE 2016, held in Lisbon, Portugal, in July 2016. ICETE is a joint international conference integrating four major areas of knowledge that are divided into six corresponding conferences: International Conference on Data Communication Networking, DCNET; International Conference on E-Business, ICE-B; International Conference on Optical Communication Systems, OPTICS; International Conference on Security and Cryptography, SECRYPT; International Conference on Signal Processing and Multimedia, SIGMAP; International Conference on Wireless Information Systems, WINSYS. The 20 full papers presented together with an invited paper in this volume were carefully reviewed and selected from 241 submissions. The papers cover the following key areas of e-business and telecommunications: data communication networking; e-business; optical communication systems; security and cryptography; signal processing and multimedia applications; wireless networks and mobile systems.

**Business Process Management Forum** Springer Science & Business Media

This book constitutes the refereed proceedings of ten international workshops held in Eindhoven, The Netherlands, in conjunction with the 12th International Conference on Business Process Management, BPM 2014, in September 2014. The ten workshops comprised Process-oriented Information Systems in Healthcare (ProHealth 2014), Security in Business Processes (SBP 2014), Process Model Collections: Management and Reuse (PMC-MR 2014), Business Processes in Collective Adaptive Systems (BPCAS 2014), Data- and Artifact-centric BPM (DAB 2014), Business Process Intelligence (BPI 2014), Business Process Management in the Cloud (BPMC 2014), Theory and Applications of Process Visualization (TaProViz 2014), Business Process Management and Social Software (BPMS2 2014) and Decision Mining and Modeling for Business Processes (DeMiMoP 2014). The 38 revised full and eight short papers presented were carefully reviewed and selected from 84 submissions. In addition, six short papers resulting from the Doctoral Consortium at BPM 2014 are included in this book.

**On the Move to Meaningful Internet Systems: OTM 2013 Conferences** Springer

This book constitutes the proceedings of the 12th International Conference on Business Process Management, BPM 2014, held in Haifa, Israel, in September 2014. The 21 regular papers and 10 short papers included in this volume were carefully reviewed and selected from 123 submissions. The papers are organized in 9 topical sections on declarative processes, user-centered process approaches, process discovery, integrative BPM, resource and time management in BPM, process analytics, process enabled environments, discovery and monitoring, and industry papers.

**Fundamentals of Business Intelligence** Routledge

This book provides a state-of-the-art perspective on intelligent process-aware information systems and presents chapters on specific facets and approaches applicable to such systems. Further, it highlights novel advances and developments in various aspects of intelligent process-aware information systems and business process management systems. Intelligence capabilities are

increasingly being integrated into or created in many of today's software products and services. Process-aware information systems provide critical computing infrastructure to support the various processes involved in the creation and delivery of business products and services. Yet the integration of intelligence capabilities into process-aware information systems is a non-trivial yet necessary evolution of these complex systems. The book's individual chapters address adaptive process management, case management processes, autonomically-capable processes, process-oriented information logistics, process recommendations, reasoning over process models, process portability, and business process intelligence. The primary target groups are researchers and PhD/Master students in the field of information systems.

**Advanced Information Systems Engineering Workshops** Springer

This book constitutes the thoroughly refereed proceedings of eight international workshops held in Valencia, Spain, in conjunction with the 25th International Conference on Advanced Information Systems Engineering, CAiSE 2013, in June 2013. The 36 full and 12 short papers have undertaken a high-quality and selective acceptance policy, resulting in acceptance rates of up to 50% for full research papers. The eight workshops were Approaches for Enterprise Engineering Research (AppEER), International Workshop on BUSiness/IT ALignment and Interoperability (BUSITAL), International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), Workshop on Human-Centric Information Systems (HC-IS), Next Generation Enterprise and Business Innovation Systems (NGEBIS), International Workshop on Ontologies and Conceptual Modeling (OntoCom), International Workshop on Variability Support in Information Systems (VarIS), International Workshop on Information Systems Security Engineering (WISSE).

**Business Process Management** Springer

Patients and medical professionals alike are slowly growing into the digital advances that are revolutionizing the ways that medical records are maintained in addition to the delivery of healthcare services. As technology continues to advance, so do the applications of technological innovation within the healthcare sector. The Encyclopedia of E-Health and Telemedicine is an authoritative reference source featuring emerging technological developments and solutions within the field of medicine. Emphasizing critical research-based articles on digital trends, including big data, mobile applications, electronic records management, and data privacy, and how these trends are being applied within the healthcare sector, this encyclopedia is a critical addition to academic and medical libraries and meets the research needs of healthcare professionals, researchers, and medical students.

**Business Process Management Workshops** Springer

This book introduces students to business process management, an approach that aims to align the organization's business processes with the demands of the marketplace. Processes serve as a coordination mechanism, and the aim of business process management is to improve the organization's effectiveness and efficiency in adapting to change, and maintaining competitive advantage. In Business Process Management, Kumar argues for the value of looking at businesses as a collection of processes that cut across departments, and for breaking down functional silos. The book provides an overview of the basic concepts in this field before moving on to more advanced topics such as process verification, flexible processes, process security and evaluation, resource assignment, and social networks. The book concludes with an examination of the future directions of the discipline. Blending a strong grounding in current research with a focus on concepts and tools, Business Process Management is an accessible textbook full of practical examples and cases that will appeal to upper level students.

**Service-Driven Approaches to Architecture and Enterprise Integration** Springer

This book constitutes the thoroughly refereed proceedings of the industrial track of the 4th International Conference on Subject-Oriented Business Process Management, S-BPM ONE 2012, held in Vienna, Austria, in April 2012. S-BPM as a discipline is characterized by a seamless approach toward the analysis, modeling, implementation, execution, and maintenance of business processes, with an explicit stakeholder focus. The 19 papers included were selected from the practically oriented submissions, and they have gone through the same rigorous peer-review process as their scientific counterparts.

**Business Information Systems Workshops** Springer

This book constitutes the thoroughly refereed proceedings of the CAiSE Forum 2018 held in Tallinn, Estonia, as part of the 30th International Conference on Advanced Information Systems Engineering, CAiSE 2018, in June 2018. The CAiSE Forum is a place within the CAiSE conference for presenting and discussing new ideas and tools related to information systems engineering.

Intended to serve as an interactive platform, the Forum aims at the presentation of emerging new topics and controversial positions, as well as demonstration of innovative systems, tools and applications. This year's theme was "Information Systems in the Big Data Era". The 10 full and 12 short papers in this volume were carefully reviewed and selected from 17 direct submissions (of which 2 full and 7 short papers were selected), plus 13 transfers from the CAISE main conference (which resulted in another 8 full and 5 short papers).

*Seminal Contributions to Information Systems Engineering* Springer

In today's dynamic business world, the success of a company increasingly depends on its ability to react to changes in its environment in a quick and flexible way. Companies have therefore identified process agility as a competitive advantage to address business trends like increasing product and service variability or faster time to market, and to ensure business IT alignment. Along this trend, a new generation of information systems has emerged—so-called process-aware information systems (PAIS), like workflow management systems, case handling tools, and service orchestration engines. With this book, Reichert and Weber address these flexibility needs and

provide an overview of PAIS with a strong focus on methods and technologies fostering flexibility for all phases of the process lifecycle (i.e., modeling, configuration, execution and evolution). Their presentation is divided into six parts. Part I starts with an introduction of fundamental PAIS concepts and establishes the context of process flexibility in the light of practical scenarios. Part II focuses on flexibility support for pre-specified processes, the currently predominant paradigm in the field of business process management (BPM). Part III details flexibility support for loosely specified processes, which only partially specify the process model at build-time, while decisions regarding the exact specification of certain model parts are deferred to the run-time. Part IV deals with user- and data-driven processes, which aim at a tight integration of processes and data, and hence enable an increased flexibility compared to traditional PAIS. Part V introduces existing technologies and systems for the realization of a flexible PAIS. Finally, Part VI summarizes the main ideas of this book and gives an outlook on advanced flexibility issues. The book's target groups include researchers, PhD students and Master students in the field of information systems. After reading the book, they will better understand PAIS flexibility aspects. To support the easy use as a textbook, a series of exercises is provided at the end of each chapter and slides and further

teaching material are available on the book's web site [www.flexible-processes.com](http://www.flexible-processes.com). Professionals specializing in business process management (BPM) who want to obtain a good understanding of flexibility challenges in BPM and state-of-the-art solutions will also benefit from the presentations of open source as well as commercial process management systems and related practical scenarios.

**Enterprise Interoperability** Springer Science & Business Media

This volume constitutes the refereed proceedings of the Confederated International Conferences: Cooperative Information Systems, CoopIS 2016, Ontologies, Databases, and Applications of Semantics, ODBASE 2016, and Cloud and Trusted Computing, C&TC, held as part of OTM 2016 in October 2016 in Rhodes, Greece. The 45 full papers presented together with 16 short papers were carefully reviewed and selected from 133 submissions. The OTM program every year covers data and Web semantics, distributed objects, Web services, databases, information systems, enterprise workow and collaboration, ubiquity, interoperability, mobility,grid and high-performance computing.

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