

To Bpmn 2 Bonita Bpm

This book focuses on the development and implementation of cloud-based, complex software that allows parallelism, fast processing, and real-time connectivity. Software engineering (SE) is the design, development, testing, and implementation of software applications, and this discipline is as well developed as the practice is well established whereas the Cloud Software Engineering (CSE) is the design, development, testing, and continuous delivery of service-oriented software systems and applications (Software as a Service Paradigm). However, with the emergence of the highly attractive cloud computing (CC) paradigm, the tools and techniques for SE are changing. CC provides the latest software development environments and the necessary platforms relatively easily and inexpensively. It also allows the provision of software applications equally easily and on a pay-as-you-go basis. Business requirements for the use of software are also changing and there is a need for applications in big data analytics, parallel computing, AI, natural language processing, and biometrics, etc. These require huge amounts of computing power and sophisticated data management mechanisms, as well as device connectivity for Internet of Things (IoT) environments. In terms of hardware, software, communication, and storage, CC is highly attractive for developing complex software that is rapidly becoming essential for all sectors of life, including commerce, health, education, and transportation. The book fills a gap in the SE literature by providing scientific contributions from researchers and practitioners, focusing on frameworks, methodologies, applications, benefits and inherent challenges/barriers to engineering software using the CC paradigm.

This book constitutes the refereed proceedings of the Second International Conference on Digital Economy, ICDEc 2017, held in Sidi Bou Said, Tunisia, in May 2017. The 18 papers presented in this volume were carefully reviewed and selected from 46 submissions. The theme of ICDEc 2017 was “Digital Economy: Emerging Technologies and Business Innovation”. The conference offered a number of sessions discussing innovative research focusing on emerging technologies which support the digital transformation of business and the economy: digital marketing, digital economy and e-learning, data science and security, and uncertainty in Web data.

This book constitutes the proceedings of the 11th International Conference on Business Process Management, BPM 2013, held in Beijing, China, in August 2013. The 17 regular papers and 8 short papers included in this volume were carefully reviewed and selected from 118 submissions. The papers are organized in 7 topical sections named: process mining; conformance checking; process data; process model matching; process architectures and collaboration; as well as alternative perspectives, and industry paper.

Software Engineering in the Era of Cloud Computing Springer Nature

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Los servicios software se han convertido en un factor clave en el crecimiento de cualquier economía desarrollada. Este hecho ha motivado el interés de los distintos actores económicos por desarrollar una Ciencia de los Servicios, también conocida desde una perspectiva más amplia como Ciencia, Gestión e Ingeniería de los Servicios (SSME). En este marco, las XII Jornadas de Ciencia e Ingeniería de Servicios (JCIS 2016) se constituyen como un foro de discusión e intercambio de conocimiento y experiencias. El interés no sólo se centra en los nuevos avances científicos, sino también en las tecnologías existentes en torno a la computación orientada a servicios y los procesos de negocio, las nuevas prácticas de ingeniería de servicios y las lecciones aprendidas por medio de experiencias reales. Desde sus inicios, JCIS pro-picia el encuentro de todas las comunidades relacionadas con el ámbito de la Ingeniería de Servicios incluyendo Servicios Web,

SOA, Procesos de Negocio, etc. Con este enfoque pretendemos mantener e incrementar la comunicación y el intercambio de experiencias entre los profesionales de la industria, la administración y los investigadores más relevantes en las áreas involucradas. JCIS 2016 es una conferencia organizada bajo los auspicios de Sistedes (Sociedad de Ingeniería del Software y Tecnologías de Desarrollo de Software) y celebrada en Salamanca dentro del V Congreso Español de Informática (CEDI 2016).

BPMN 2.0 ist der führende und offene Standard für die Geschäftsprozessmodellierung. Unabhängig von der Wahl des Modellierungswerkzeuges bleibt die Bedeutung der Geschäftsprozessdiagramme immer dieselbe. Allerdings erfordert das Erstellen von korrekten, vollständigen und aussagekräftigen Diagrammen mehr als ein einfaches Verzeichnis der BPMN-Elemente. Vielmehr wird eine Methode benötigt, welche die Übersetzung der Prozesslogik in ein konsistentes BPMN-Diagramm unterstützt. Dies erfordert eine sinnvolle Anzahl von Stilregeln, die gewährleisten, dass die Prozesslogik alleine aus dem Diagramm ablesbar ist. Kurz gesagt: "Gute BPMN" erfordert einen konsequent verfolgten Ansatz bei der Prozessmodellierung, genannt Methode & Stil." In diesem Buch wird erklärt, welche BPMN-Elemente wirklich benötigt werden und wie sie in der Praxis angewendet werden. Die Ebene 1, die deskriptive Unterklasse der BPMN 2.0, beinhaltet die Elemente, die zur Mehrheit aus der klassischen Flussdiagrammtechnik bekannt sind. Ebene 2, die analytische Unterklasse, erweitert diese Palette zur Modellierung von Ereignissen und Ausnahmebehandlungen. Die grundlegenden Konzepte der BPMN werden vertieft behandelt. Dinge wie Aktivitäten, Prozesse und Endstatus sind essentiell bei der korrekten Verwendung der Sprache. Es ist ein schrittweises Top-down Vorgehen erforderlich, das vorgibt, wie von einem weissen Blatt Papier zu einem ausdrucksstarken Modell hingearbeitet werden kann. Im Hauptdiagramm ist einfach und klar erkennbar, wie ein Prozess startet, welches seine möglichen Endzustände sind, was eine Prozessinstanz im Modell repräsentiert und wie die Kommunikation abläuft. Ausgehend von einem Hauptdiagramm wird der Prozessfluss von oben nach unten entwickelt. Die populäre erste Ausgabe des gleichnamigen Buches wurde im Jahr 2009 auf der Basis des Entwurfes zur Spezifikation der BPMN 2.0 veröffentlicht. Die vorliegende zweite Ausgabe behandelt die finale BPMN 2.0-Spezifikation, die sich seit der ersten Auflage des Buches verändert hat. Der Methode & Stil-Teil wurde fast vollständig neu geschrieben. Die zweite Hälfte des Buches, das "BPMN-Handbuch für die Prozessautomatisierung" wurde komplett neu entwickelt. Darin wird die XML-Diagramm-Repräsentation für nicht-ausführbare und ausführbare Prozessmodelle ins Zentrum gerückt. Dabei wird das BPMN-Metamodell und das XML-Schema detailliert erklärt und das BPMN-I-Profil beschrieben. Letzteres beinhaltet eine Menge von Regeln, welche den Austausch von Diagrammen mit Elementen aus der analytischen Unterklasse sicherstellen soll. Anhand eines Beispiels auf der Basis der Open-Source-Lösung Bonita Open Solution wird veranschaulicht, wie zur Ausführung benötigte Details, wie Prozessdaten und Datenmappings, Services, Nachrichten und Benutzerinteraktionen, in der BPMN 2.0 definiert werden. Das Buch schliesst mit Richtlinien für Entwickler ab, welche zeigen, wie das Design von Top-down-modellierten Geschäftsprozessen in eine ausführbare Form gebracht werden kann. Das Buch ist mit über 100 BPMN-Diagrammen reichhaltig illustriert und das Handbuch für die Prozessautomatisierung enthält unzählige XML-Beispiele. Bruce Silver, bekannt als BPMN-Berater, Autor und Dozent, ist einer der führenden Anbieter für BPMN-Training, -Zertifizierung und -Beratung. Er war Mitglied der Arbeitsgruppe für die Entwicklung der BPMN 2.0 in der OMG und unterhält den populären Blog BPMS Watch (www.brsilver.com), der Neuigkeiten und Kommentare rund um BPM-Suiten und BPMN enthält. Stephan Fischli, Berater, Coach und Trainer im BPM-Umfeld, ist langjähriges Mitglied der OMG im Umfeld der Entwicklung der BPMN. Er hat die deutsche Ausgabe dieses Buches verfasst und hat zusammen mit Bruce Silver die BPMN-Schulungsplattform BPMessentials.com aufgebaut. Stephan Fischli unterhält den offenen BPMN-Blog (www.bpmn.ch) und engagiert sich in verschiedenen Standardisierungs-Organisationen rund um BPM und

BPM

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.

This volume constitutes the refereed proceedings of ten international workshops, OTM Academy, Industry Case Studies Program, EI2N, INBAST, Meta4eS, OnToContent, ORM, SeDeS, SINCOM and SOMOCO 2012, held as part of OTM 2012 in Rome, Italy, in September 2012. The 66 revised full papers presented were carefully reviewed and selected from a total of 127 submissions. The volume also includes 7 papers from the On the Move Academy (OTMA) 2012 as well as 4 CoopIS 2012 poster papers and 5 ODBASE 2012 poster papers. The paper cover various aspects of computer supported cooperative work (CSCW), middleware, Internet/Web data management, electronic commerce, enterprise modelling, workflow management, knowledge flow, agent technologies, information retrieval, software architectures, service-oriented computing, and cloud computing.

Looking for efficiency gains in your business? If you're a business analyst, this practical guide will show you how to design effective business process management (BPM) applications. Every business uses business processes—these everyday tasks help you gain and retain customers, stay profitable, and keep your operations infrastructure functioning. BPM specialists Christine McKinty and Antoine Mottier show you step-by-step how to turn a simple business procedure into an automated, process-based application. Using hands-on examples, you'll quickly learn how to create an online process that's easy to use. Each chapter builds on earlier material. You don't have to have any programming experience to design business processes—and if you have skills in designing workflows and understanding human interactions with processes, you already have a headstart. Through the course of this book, you will: Build a prototype of an application page Create the most frequent use flow in a process, and define the data model Generate real process forms and produce the first version of the application Connect your application to external information systems, and then build and test the complete application

This book brings together experts from different areas to show how creativity drives design and innovation to allow the integration of a wider spectrum of topics related to engineering design, industrial design and ergonomics in design. It presents theories and

best practices demonstrating how creativity generates technological invention, and how this, combined with entrepreneurship, leads to business innovation. It also discusses strategies to teach creativity and entrepreneurial competencies. Moreover, the book discusses the role of human factors in understanding, communicating with and engaging users, reporting on innovative approaches, new typographies, visual elements and technologies applied to mobile and computer interfaces developments. It also discusses innovative strategies for design education and sustainable design. Based on the AHFE 2020 Virtual Conference on Creativity, Innovation and Entrepreneurship and on the AHFE 2020 Virtual Conference on Human Factors in Communication of Design, held on July 16–20, 2020, this book offers a fresh perspective and novel insights for human factors researchers, designers, communicators and innovators.

Concurrent Engineering (CE) is based on the premise that different phases of a product's lifecycle should be conducted concurrently and initiated as early as possible within the Product Creation Process (PCP). It has become the substantive basic methodology in many industries, including automotive, aerospace, machinery, shipbuilding, consumer goods, process industry and environmental engineering. CE aims to increase the efficiency of the PCP and reduce errors in later phases while incorporating considerations for full lifecycle and through-life operations. This book presents the proceedings of the 22nd ISPE Inc. (International Society for Productivity Enhancement) International Conference on Concurrent Engineering (CE2015) entitled 'Transdisciplinary Lifecycle Analysis of Systems', and held in Delft, the Netherlands, in July 2015. It is the second in the series 'Advances in Transdisciplinary Engineering'. The book includes 63 peer reviewed papers and 2 keynote speeches arranged in 10 sections: keynote speeches; systems engineering; customization and variability management; production oriented design, maintenance and repair; design methods and knowledge-based engineering; multidisciplinary product management; sustainable product development; service oriented design; product lifecycle management; and trends in CE. Containing papers ranging from the theoretical and conceptual to the highly pragmatic, this book will be of interest to all engineering professionals and practitioners; researchers, designers and educators.

This book constitutes the refereed proceedings of the 13th International Conference on Integrated Formal Methods, IFM 2017, held in Turin, Italy, in September 2017. The 24 full papers and 4 short papers presented were carefully reviewed and selected from 61 submissions. They are organized in topical sections on cyber-physical systems, software verification tools, safety-critical systems, concurrency and distributed systems, program verification techniques, formal modeling, and verified software..

This book constitutes the refereed proceedings of the 11th International IFIP WG 2.13 International Conference on Open Source Systems, OSS 2015, held in Florence, Italy, in May 2015. The 16 revised full papers presented were carefully reviewed and selected from 50 submissions. They have been organized in the following topical sections: open source software engineering; communication and collaboration; examples and case studies; adoption, use, and impact; and intellectual property and legal issues. Also included is an OSS 2015 PhD contest paper.

This book contains substantially extended and revised versions of the best papers from the 15th International Conference on

Enterprise Information Systems, ICEIS 2013, held in Angers, France, in July 2013. The 29 full and two invited papers included in this volume were carefully reviewed and selected from 321 submissions. They reflect state-of-the-art research focusing mainly on real-world applications and highlight the benefits of information systems and technology for industry and services, thus connecting academia with the world of real enterprises. The topics covered are: databases and information systems integration, artificial intelligence and decision support systems, information systems analysis and specification, software agents and Internet computing, human–computer interaction, and enterprise architecture.

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This book constitutes revised papers from the twelve International Workshops held at the 17th International Conference on Business Process Management, BPM 2019, in Vienna, Austria, in September 2019: The third International Workshop on Artificial Intelligence for Business Process Management (AI4BPM) The third International Workshop on Business Processes Meet Internet-of-Things (BP-Meet-IoT) The 15th International Workshop on Business Process Intelligence (BPI) The first International Workshop on Business Process Management in the era of Digital Innovation and Transformation (BPMinDIT) The 12th International Workshop on Social and Human Aspects of Business Process Management (BPMS2) The 7th International Workshop on Declarative, Decision and Hybrid approaches to processes (DEC2H) The second International Workshop on Methods for Interpretation of Industrial Event Logs (MIEL) The first International Workshop on Process Management in Digital Production (PM-DiPro) The second International Workshop on Process-Oriented Data Science for Healthcare (PODS4H) The fourth International Workshop on Process Querying (PQ) The second International Workshop on Security and Privacy-enhanced Business Process Management (SPBP) The first International Workshop on the Value and Quality of Enterprise Modelling (VENMo) Each of the workshops discussed research still in progress and focused on aspects of business process management, either a particular technical aspect or a particular application domain. These proceedings present the work that was discussed during the workshops. Gathering the Proceedings of the 2018 Intelligent Systems Conference (IntelliSys 2018), this book offers a remarkable collection of chapters covering a wide range of topics in intelligent systems and computing, and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process, after which 194 (including 13 poster papers) were selected to be included in these proceedings. As intelligent systems continue to replace and sometimes outperform human intelligence in decision-making processes, they have made it possible to tackle many problems more effectively. This branching out of computational intelligence in several directions, and the use of intelligent systems in everyday applications, have created the need for such an international conference, which serves as a venue for reporting on cutting-edge innovations and developments. This book collects both theory and application-based chapters on all aspects of artificial intelligence, from classical to intelligent scope. Readers are sure to find the book both interesting and valuable, as it presents state-of-the-art intelligent methods and techniques for solving real-world problems, along with a vision of future research directions.

"This book is specific to the field of medical informatics and ubiquitous health care and highlights the use of new trends based on the new initiatives of Web 2.0"--Provided by publisher.

Das Buch vermittelt Konzepte, zeigt aktuelle Trends wie agile Methoden, stellt Anwendungsszenarien für die Modellierung und Implementierung von Geschäftsprozessen im Zeitalter der Digitalisierung vor. Das Herausgeberwerk basiert dabei auf Fragestellungen aus der unternehmerischen Praxis. Schwerpunkte sind innovative Analysemethoden, kontextsensitive und wissensintensive Geschäftsprozesse sowie aktuelle Ansätze bei der Umsetzung. Fallstudien runden das Buch ab. Es wendet sich sowohl an Berater und Projektverantwortliche als auch an Studierende und Lehrende.

In the increasingly competitive corporate sector, businesses must examine their current practices to ensure business success. By examining their social, financial, and environmental risks, obligations, and opportunities, businesses can re-design their operations more effectively to ensure prosperity. Sustainable Business: Concepts, Methodologies, Tools, and Applications is a vital reference source that explores the best practices that promote business sustainability, including examining how economic, social, and environmental aspects are related to each other in the company's management and performance. Highlighting a range of topics such as lean manufacturing, sustainable business model innovation, and ethical consumerism, this multi-volume book is ideally designed for entrepreneurs, business executives, business professionals, managers, and academics seeking current research on sustainable business practices.

Internet of things (IoT) is an emerging research field that is rapidly becoming an important part of our everyday lives including home automation, smart buildings, smart things, and more. This is due to cheap, efficient, and wirelessly-enabled circuit boards that are enabling the functions of remote sensing/actuating, decentralization, autonomy, and other essential functions. Moreover, with the advancements in embedded artificial intelligence, these devices are becoming more self-aware and autonomous, hence making decisions themselves. Current research is devoted to the understanding of how decision support systems are integrated into industrial IoT. Decision Support Systems and Industrial IoT in Smart Grid, Factories, and Cities presents the internet of things and its place during the technological revolution, which is taking place now to bring us a better, sustainable, automated, and safer world. This book also covers the challenges being faced such as relations and implications of IoT with existing communication and networking technologies; applications like practical use-case scenarios from the real world including smart cities, buildings, and grids; and topics such as cyber security, user privacy, data ownership, and information handling related to IoT networks.

Additionally, this book focuses on the future applications, trends, and potential benefits of this new discipline. This book is essential for electrical engineers, computer engineers, researchers in IoT, security, and smart cities, along with practitioners, researchers, academicians, and students interested in all aspects of industrial IoT and its applications.

This book features both cutting-edge contributions on managing knowledge in transformational contexts and a selection of real-world case studies. It analyzes how the disruptive power of digitization is becoming a major challenge for knowledge-based value creation worldwide, and subsequently examines the changes in how we manage information and knowledge, communicate,

collaborate, learn and decide within and across organizations. The book highlights the opportunities provided by disruptive renewal, while also stressing the need for knowledge workers and organizations to transform governance, leadership and work organization. Emerging new business models and digitally enabled co-creation are presented as drivers that can help establish new ways of managing knowledge. In turn, a number of carefully selected and interpreted case studies provide a link to practice in organizations.

This book constitutes the proceedings of the 19th International Conference on Coordination Models and Languages, COORDINATION 2017, held in Neuchâtel, Switzerland, in June 2017, as part of the 12th International Federated Conference on Distributed Computing Techniques, DisCoTec 2017. The 13 full papers included in this volume were carefully reviewed and selected from 31 submissions. The papers cover a wide range of topics and techniques related to system coordination, including: languages and tools; types; resource, components and information flow; verification.

Durch die Komplexität der Arbeitsabläufe in vielen Unternehmen ist der zweckmäßige Einsatz von Workflow Management Systemen in vielen Bereichen immer mehr von entscheidender Bedeutung. Um Standards in dem Bereich der Arbeitsabläufe zu schaffen, ist es am wichtigsten, diese im ersten Schritt zu erfassen. Erst dadurch besteht die Möglichkeit, diese zu analysieren und zu optimieren. Sind diese Schritte erfolgreich durchgeführt worden, ist danach erst die Integration eines Workflow-Systems möglich. Die benötigten Schritte bis zur Einführung eines Workflow-Systems sind aber nicht Bestandteil dieses Buches. Es wird vielmehr davon ausgegangen, dass bei der Einführung und Auswahl eines geeigneten Systems die Prozesse bekannt sind und direkt in ein entsprechendes System technisch umgesetzt werden können. In dieser Studie werden nur eigenständig nutzbare Systeme detailliert untersucht. Durch die ständig wachsenden Anforderungen in allen Unternehmen und durch die steigende Geschwindigkeit ist es von entscheidender Bedeutung, Informationen und Arbeitsabläufe schnell und zuverlässig an die entsprechenden Personen und Stellen zu verteilen. Ein Workflow-System sollte die Produktivität steigern, Kosten für einen Prozess senken und die Bearbeitung von externen Aufgaben beschleunigen. Besonders interessant ist dabei der Fokus auf Open Source Systeme, die nicht von einzelnen Unternehmen entwickelt werden, sondern bei denen häufig eine ganze Gruppe von freiwilligen Entwicklern hinter diesen Projekten steht. Im Detail werden folgende Systeme in diesem Buch genauer beschrieben und untersucht: Processmaker, Joget, Bonita Open Solution, uEngine und Activiti. Wenn Sie die Einführung dieser Systeme für Ihr Unternehmen planen, kann dieses Buch wichtige Tipps und Hinweise zur Auswahl der entsprechenden Software geben, da es nicht die beste Lösung gibt, sondern bei jedem Projekt individuelle Anforderungen durch die jeweils passende Software abgedeckt werden können.

The next generation of Business Process Management (BPM) methods and tools will support the development of a new generation of service-enabled applications that change and evolve over time. The trend is moving from relatively stable, organization-specific applications to dynamic ones supporting business processes. This book is an outcome of the International Workshop on Business System Management and Engineering (BSME 2010), held in Malaga, Spain, in June/July 2010, in

conjunction with the TOOLS 2010 federated conferences and under the aegis of the EU Network of Excellence on Service Software and Systems (S-Cube). The goal of the workshop was to bring together experts in the fields of business process management, service-oriented architectures, and service security to discuss the current state of research and identify new issues, challenges, and research directions. The results of these discussions are reflected in this book.

Business Process Management-Systeme (BPMS) setzen sich in der Praxis zunehmend als Plattformen für die IT-Unterstützung von Geschäftsprozessen durch. Wer sich mit modernen Software-Konzepten auseinandersetzt, muss wissen, wie ein BPMS funktioniert und was es leisten kann. Ausgehend von einem einfachen Prozess lernen Sie zunächst den grundlegenden Aufbau und die Einsatzweise dieser Systeme kennen. Anschließend werden die verschiedenen Aspekte der Prozessautomatisierung vertieft. Hierzu gehören: - Modellierung des Ablaufs - Verarbeitung und Speicherung von Daten in Prozessen - Festlegung und Zuordnung der zuständigen Benutzer - Gestaltung und Einbindung von Benutzerdialogen - Integration anderer Systeme - Zusammenspiel mehrerer Prozesse - Formulierung und Auswertung von Geschäftsregeln Für jedes dieser Themen wurde eine Reihe von Beispielprozessen entwickelt, die von der Begleit-Webseite des Buchs heruntergeladen und mit der kostenlosen Community Edition des Systems „Bonita BPM“ ausgeführt werden können. Die im Buch vermittelten Grundlagen sind allgemeingültig und somit unabhängig von einem bestimmten Produkt anwendbar.

This book constitutes the refereed proceedings of the 40th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2014, held in Nový Smokovec, Slovakia, in January 2014. The 40 revised full papers presented in this volume were carefully reviewed and selected from 104 submissions. The book also contains 6 invited talks. The contributions covers topics as: Foundations of Computer Science, Software and Web Engineering, as well as Data, Information and Knowledge Engineering and Cryptography, Security and Verification.

This book constitutes extended, revised and selected papers from the 21st International Conference on Enterprise Information Systems, ICEIS 2019, held in Heraklion, Crete, Greece, in May 2019. The 26 papers presented in this volume were carefully reviewed and selected for inclusion in this book from a total of 205 submissions. They deal with topics such as data science and databases; ontologies; social networks; knowledge management; software development; human-computer interaction, and multimedia.

This book constitutes revised selected papers from the 12th International Workshop on Rewriting Logic and Its Applications, WRLA 2018, held in Thessaloniki, Greece, in June 2018. The 12 full papers presented in this volume were carefully reviewed and selected from 21 submissions. They deal with rewriting, a natural model of computation and an expressive semantic framework for concurrency, parallelism, communication, and interaction, and its applications.

This book constitutes the revised selected papers of the 13th International Conference on Service-Oriented Computing, ICSOC 2015, held in Goa, India in November 2015. The conference hosted the following seven workshops: 11th International Workshop on Engineering Service-Oriented Applications, WESOA 2015; Second Workshop on Resource Management in Service-Oriented

Computing, RMSOC 2015; Workshop on Intelligent Service Clouds, ISC 2015; Second Workshop on Intelligent Service Clouds; First International Workshop on Dependability Issues in Services Computing, DISCO 2015; Workshop on Engineering for Service-oriented Enterprises, WESE 2015; First International Workshop on Big Data Services and Computational Intelligence, BSCI 2015 (joined with ISC 2015); and Second International Workshop on Formal Modeling and Verification of Service-based systems, FORMOVES 2015. The 22 full papers included in this volume were carefully reviewed and selected from 45 submissions.

This book constitutes the proceedings of the Third Asia Pacific Conference on Business Process Management held in Busan, South Korea, in June 2015. Overall, 37 contributions from ten countries were submitted. After each submission was reviewed by at least three Program Committee members, 12 full and two short papers were accepted for publication in this volume. These papers cover various topics and are categorized under four main research focuses in BPM: advancement in workflow technologies, resources allocation strategies, process mining, and emerging topics in BPM.

This book contains revised and extended versions of selected papers from the Sixth International Symposium on Business Modeling and Software Design, BMSD 2016, held in Rhodes, Greece, in June 2016, organized by the Institute IICREST in cooperation with BPM-D, Aristotle University of Thessaloniki, TU Delft, CTIT - University of Twente, IMI-BAS, the Dutch Research School SIKS, and AMAKOTA Ltd. BMSD 2016 received 59 paper submissions from which 27 papers were selected for publication in the BMSD'16 proceedings. Additional post-symposium reviewing was carried out reflecting both the qualities of the papers and the way they were presented. 11 best papers were selected for the current Springer edition, that were carefully revised and extended, following the reviewers' comments and recommendations.

The selection considers a large number of BMSD-relevant research topics: from business-processes-related topics, such as business process management, variability of business processes, and inconsistencies risk detection, (here it is to be mentioned that several papers consider and analyze particular business process modeling formalisms and tools), through system-engineering-related topics, such as conceptual modeling, enterprise architectures, human-centered design, signs modeling, and idiosyncrasies capturing, to service-oriented-software-engineering-related topics, such as service orchestration and e-services design.

This book constitutes the thoroughly revised selected papers from the 13th International Conference on Formal Aspects of Component Software, FACS 2016, held in Besançon, France, in October 2016. The 11 full papers presented together with one tool paper and 3 invited papers were carefully reviewed and selected from 27 submissions. FACS 2016 is concerned with how formal methods can be used to make component-based and service-oriented software development succeed. Formal methods have provided a foundation for component-based software by successfully addressing challenging issues such as mathematical models for components, composition and adaptation, or rigorous approaches to

verification, deployment, testing, and certification.

Business Process Management (BPM) has become one of the most widely used approaches for the design of modern organizational and information systems. The conscious treatment of business processes as significant corporate assets has facilitated substantial improvements in organizational performance but is also used to ensure the conformance of corporate activities. This Handbook presents in two volumes the contemporary body of knowledge as articulated by the world's leading BPM thought leaders. This first volume focuses on arriving at a sound definition of BPM approaches and examines BPM methods and process-aware information systems. As such, it provides guidance for the integration of BPM into corporate methodologies and information systems. Each chapter has been contributed by leading international experts. Selected case studies complement their views and lead to a summary of BPM expertise that is unique in its coverage of the most critical success factors of BPM. The second edition of this handbook has been significantly revised and extended. Each chapter has been updated to reflect the most current developments. This includes in particular new technologies such as in-memory data and process management, social media and networks. A further focus of this revised and extended edition is on the actual deployment of the proposed theoretical concepts. This volume includes a number of entire new chapters from some of the world's leading experts in the domain of BPM.

This LNCS double volume LNCS 10069-10070 constitutes the refereed proceedings of the 10th International Conference on Ubiquitous Computing and Ambient Intelligence, UCAmI 2016, which includes the International Work Conference on Ambient Assisted Living (IWAAL), and the International Conference on Ambient Intelligence for Health (AmIHEALTH), held in Las Palmas de Gran Canaria, Spain, in November/December 2016. The 69 full papers presented together with 40 short papers and 5 doctoral consortium papers were carefully reviewed and selected from 145 submissions. UCAmI 2016 is focused on research topics related to ambient assisted living, internet of things, smart cities, ambient intelligence for health, human-computer interaction, ad-hoc and sensor networks, and security.

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