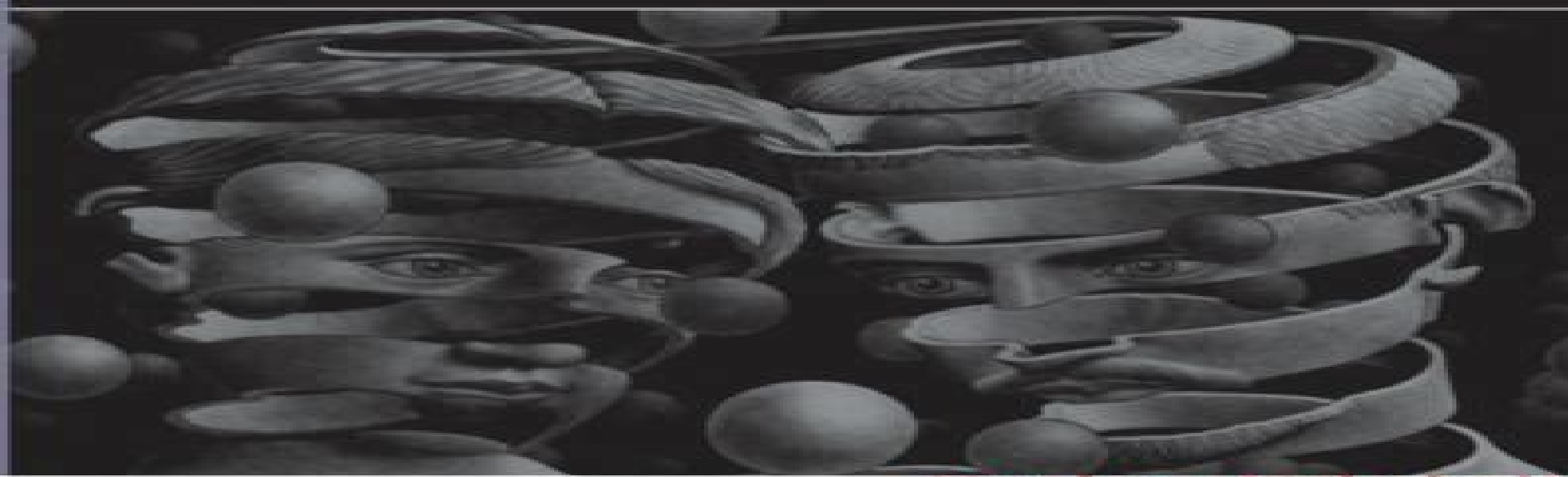


# Process-Aware Information Systems

Bridging People and Software through  
Process Technology

Marlon Dumas, Wil M. P. van der Aalst, and Arthur H. M. ter Hofstede



# Process Aware Information Systems Bridging People And Software Through Process Technology

**Tan, Joseph**



## **Process Aware Information Systems Bridging People And Software Through Process Technology:**

*Process-Aware Information Systems* Marlon Dumas, Wil M. van der Aalst, Arthur H. ter Hofstede, 2005-10-13 A unifying foundation to design and implement process aware information systems This publication takes on the formidable task of establishing a unifying foundation and set of common underlying principles to effectively model design and implement process aware information systems Authored by leading authorities and pioneers in the field Process Aware Information Systems helps readers gain a thorough understanding of major concepts languages and techniques for building process aware applications including UML and EPCs two of the most widely used notations for business process modeling Concrete techniques for process design and analysis Process execution standards WfMC and BPEL Representative commercial tools ARIS TIBCO Staffware and FLOWer Each chapter begins with a description of the problem domain and then progressively unveils relevant concepts and techniques Examples and illustrations are used extensively to clarify and simplify complex material Each chapter ends with a set of exercises ranging from simple questions to thought provoking assignments Sample solutions for many of the exercises are available on the companion Web site Armed with a new and deeper understanding readers are better positioned to make their own contributions to the field and evaluate various approaches to a particular task or problem This publication is recommended as a textbook for graduate and advanced undergraduate students in computer science and information systems as well as for professionals involved in workflow and business process management groupware and teamwork enterprise application integration and business to business integration A Solution s Manual is available online An Instructor Support FTP site is also available [Advances in Intelligent Process-Aware Information Systems](#) Gregor Grambow, Roy Oberhauser, Manfred Reichert, 2017-05-22 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 [Information Systems Development](#) Rob Pooley, Jennifer Coady, Christoph Schneider, Henry Linger, Chris Barry, Michael Lang, 2013-10-26 Information Systems Development Reflections Challenges and New Directions is the collected proceedings of the 20th International Conference on

Information Systems Development held in Edinburgh Scotland August 24 26 2011 It follows in the tradition of previous conferences in the series in exploring the connections between industry research and education These proceedings represent ongoing reflections within the academic community on established information systems topics and emerging concepts approaches and ideas It is hoped that the papers herein contribute towards disseminating research and improving practice

*Business Process Technology* Dirk Draheim,2010-08-09 Currently we see a variety of tools and techniques for specifying and implementing business processes The problem is that there are still gaps and tensions between the different disciplines needed to improve business process execution and improvement in enterprises Business process modeling workflow execution and application programming are examples of disciplines that are hosted by different communities and that emerged separately from each other In particular concepts have not yet been fully elaborated at the system analysis level Therefore practitioners are faced again and again with similar questions in concrete business process projects Which decomposition mechanism to use How to find the correct granularity for business process activities Which implementing technology is the optimal one in a given situation This work offers an approach to the systematization of the field The methodology used is explicitly not a comparative analysis of existing tools and techniques although a review of existing tools is an essential basis for the considerations in the book Rather the book tries to provide a landscape of rationales and concepts in business processes with a discussion of alternatives

**Developments in Healthcare Information Systems and Technologies: Models and Methods** Tan, Joseph,2010-07-31 *Developments in Healthcare Information Systems and Technologies Models and Methods* presents the latest research in healthcare information systems design development and deployment benefiting researchers practitioners and students Contributions investigate topics such as clinical education electronic medical records clinical decision support systems and IT adoption in healthcare

**Service Life Cycle Tools and Technologies: Methods, Trends and Advances** Lee, Jonathan, Ma, Shang-Pin, Liu, Alan,2011-11-30 As Service Oriented Computing SOC gains a wider global acceptance the need for understanding its life cycle becomes inevitable not only for developers but also for users *Service Life Cycle Tools and Technologies Methods Trends and Advances* compiles the latest research on SOC life cycles detailing methodologies and applications in this emerging field The development of service oriented applications not only depends on constructing service providers but also composition and delivery Service requesters service providers and developers alike will benefit from the views and models in a service life cycle This volume offers research that has been conducted in both industry and academia to address issues in the SOC domain including service discovery service composition and service management It serves as a vital reference for those on either side of the service field

*Web Engineering* Boualem Benatallah, Fabio Casati, Gerti Kappel, Gustavo Rossi,2010-07-07 In parallel to the printed book each new volume is published electronically in LNCS Online R sum de l diteur

**Process Modeling and Management for Healthcare** Carlo Combi, Giuseppe Pozzi, Pierangelo Veltri,2017-11-09 From the Foreword This book

provides a comprehensive overview of the fundamental concepts in healthcare process management as well as some advanced topics in the cutting edge research of the closely related areas This book is ideal for graduate students and practitioners who want to build the foundations and develop novel contributions in healthcare process modeling and management Christopher Yang Drexel University Process modeling and process management are traversal disciplines which have earned more and more relevance over the last two decades Several research areas are involved within these disciplines including database systems database management information systems ERP operations research formal languages and logic Process Modeling and Management for Healthcare provides the reader with an in depth analysis of what process modeling and process management techniques can do in healthcare the major challenges faced and those challenges remaining to be faced The book features contributions from leading authors in the field The book is structured into two parts Part one covers fundamentals and basic concepts in healthcare It explores the architecture of a process management environment the flexibility of a process model and the compliance of a process model It also features a real application domain of patients suffering from age related macular degeneration Part two of the book includes advanced topics from the leading frontiers of scientific research on process management and healthcare This section of the book covers software metrics to measure features of the process model as a software artifact It includes process analysis to discover the formal properties of the process model prior to deploying it in real application domains Abnormal situations and exceptions as well as temporal clinical guidelines are also presented in depth Pro

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**Handbook of Research on Business Social Networking: Organizational, Managerial, and Technological Dimensions** Cruz-Cunha, Maria Manuela,Gonçalves, Patricia,Lopes, Nuno,Miranda, Eva Maria,Putnik, Goran D.,2011-10-31 Given the widespread frequent use of social networks as a means for people to communicate and share their interests it comes as no surprise that they have become an important tool for businesses and business networking The Handbook of Research on Business Social Networking Organizational Managerial and Technological Dimensions investigates the beginning of social networks and provides perspectives on how they can enhance business This two volume reference discusses the main issues challenges opportunities and trends related to the range of new developments and applications in business social networking Social networks and their integration in businesses are be addressed using technological organizational managerial and social perspectives with the aim of disseminating current developments case studies new integrated approaches and practical solutions and applications

Aligning Enterprise, System, and Software Architectures Mistrik, Ivan,Tang, Antony,Bahsoon, Rami,Stafford, Judith A.,2012-10-31 This book covers both theoretical approaches and practical solutions in the processes for aligning enterprise systems and software architectures Provided by publisher

*Industrial Engineering and Operations Management* Antônio Márcio Tavares Thomé,Rafael Garcia Barbastefano,Luiz Felipe Scavarda,João Carlos Gonçalves dos Reis,Marlene Paula Castro Amorim,2020-10-29 This volume gathers selected peer reviewed papers presented at the XXVI International Joint Conference on Industrial Engineering and Operations Management IJCIEOM held on July 8 11 2020 in Rio de Janeiro Brazil The respective chapters address a range of timely topics in industrial engineering including operations and process management global operations managerial economics data science and stochastic optimization logistics and supply chain management quality management product development strategy and organizational engineering knowledge and information management work and human factors sustainability production engineering education healthcare operations management disaster management and more These topics broadly involve fields like operations manufacturing industrial and production engineering and management Given its scope the book offers a valuable resource for those engaged in optimization research operations research and practitioners alike

**Hagenberg Business Process Modelling Method** Felix Kossak,Christa Illibauer,Verena Geist,Christine Natschläger,Thomas Ziebermayr,Bernhard Freudenthaler,Theodorich Kopetzky,Klaus-Dieter Schewe,2016-04-27 This book presents a proposal for designing business process management BPM

systems that comprise much more than just process modelling Based on a purified Business Process Model and Notation BPMN variant the authors present proposals for several important issues in BPM that have not been adequately considered in the BPMN 2.0 standard It focusses on modality as well as actor and user interaction modelling and offers an enhanced communication concept In order to render models executable the semantics of the modelling language needs to be described rigorously enough to prevent deviating interpretations by different tools For this reason the semantics of the necessary concepts introduced in this book are defined using the Abstract State Machine ASM method Finally the authors show how the different parts of the model fit together using a simple example process and introduce the enhanced Process Platform eP2 architecture which binds all the different components together The resulting method is named Hagenberg Business Process Modelling H BPM after the Austrian village where it was designed The motivation for the development of the H BPM method stems from several industrial projects in which business analysts and software developers struggled with redundancies and inconsistencies in system documentation due to missing integration The book is aimed at researchers in business process management and industry 4.0 as well as advanced professionals in these areas

Web Services and Formal Methods Marlon Dumas, Reiko Heckel, 2008-04-13 This volume contains the papers presented at WS FM 2007 the 4th International Workshop on Web Services and Formal Methods held on September 28 and 29 2007 in Brisbane Australia Web service technology aims at empowering providers of services in the broad sense with the ability to package and deliver their services by means of software applications available on the Web Existing infrastructures for Web services ready enable providers to describe services in terms of structure access policy and behaviour to locate services to interact with them and to bundle simpler services into more complex ones However innovations are needed to seamlessly extend this technology in order to deal with challenges such as managing interactions with stateful and long running Web services managing large numbers of Web services each with multiple interfaces and versions managing the quality of Web service delivery etc Formal methods have a fundamental role to play in shaping innovations in Web service technology For instance formal methods help to define and to understand the semantics of languages and protocols that underpin existing infrastructures for Web services and to formulate features that are found to be lacking They also provide a basis for reasoning about Web service behaviour for example to discover individual services that can fulfil a given goal or even to compose multiple services that can collectively fulfil a goal Finally formal analysis of security properties and performance are relevant in many application areas of Web services such as e-commerce and e-business

*Handbook of Research on Innovations in Systems and Software Engineering* Díaz, Vicente García, Lovelle, Juan Manuel Cueva, García-Bustelo, B. Cristina Pelayo, 2014-08-31 Professionals in the interdisciplinary field of computer science focus on the design operation and maintenance of computational systems and software Methodologies and tools of engineering are utilized alongside the technological advancements of computer applications to develop efficient and precise databases of information The Handbook of Research on Innovations in Systems

and Software Engineering combines relevant research from all facets of computer programming to provide a comprehensive look at the challenges and changes in the field With information spanning topics such as design models cloud computing and security this handbook is an essential reference source for academicians researchers practitioners and students interested in the development and design of improved and effective technologies

**Exploring Digital Ecosystems** Alessandra Lazazzara, Francesca Ricciardi, Stefano Za, 2019-07-30 The recent surge of interest in digital ecosystems is not only transforming the business landscape but also poses several human and organizational challenges Due to the pervasive effects of the transformation on firms and societies alike both scholars and practitioners are interested in understanding the key mechanisms behind digital ecosystems their emergence and evolution In order to disentangle such factors this book presents a collection of research papers focusing on the relationship between technologies e g digital platforms AI infrastructure and behaviours e g digital learning knowledge sharing decision making Moreover it provides critical insights into how digital ecosystems can shape value creation and benefit various stakeholders The plurality of perspectives offered makes the book particularly relevant for users companies scientists and governments The content is based on a selection of the best papers original double blind peer reviewed contributions presented at the annual conference of the Italian chapter of the AIS which took place in Pavia Italy in October 2018

E-Business Managerial Aspects, Solutions and Case Studies Cruz-Cunha, Maria Manuela, Varajão, João, 2010-12-31 This book provides a discussion of the managerial aspects solutions and case studies related to e business disseminating current achievements and practical solutions and applications Provided by publisher

**Business Modeling and Software Design** Boris Shishkov, 2025-08-01 This book constitutes the refereed proceedings of the 15th International Symposium on Business Modeling and Software Design BMSD 2025 which took place in Milan Italy during July 1-3 2025 The 9 full papers and 14 short papers included in these proceedings were carefully reviewed and selected from 48 submissions BMSD is a leading international forum that brings together researchers and practitioners interested in business modeling and its relation to software design Particular areas of interest are Business Processes and Enterprise Engineering Business Models and Requirements Business Models and Services Business Models and Software Information Systems Architectures and Paradigms Data Aspects in Business Modeling and Software Development Blockchain Based Business Models and Information Systems IoT and Implications for Enterprise Information Systems

*Process-Driven SOA* Carsten Hentrich, Uwe Zdun, 2016-04-19 Process Driven SOA Patterns for Aligning Business and IT supplies detailed guidance on how to design and build software architectures that follow the principles of business IT alignment It illustrates the design process using proven patterns that address complex business technical scenarios where integrated concepts of service oriented architecture SOA Business Process Management BPM and Event Driven Architecture EDA are required The book demonstrates that SOA is not limited to technical issues but instead is a holistic challenge where aspects of SOA EDA and BPM must be addressed together An ideal guide for SOA solution architects designers developers managers and



students about to enter the field the book Provides an accessible introduction to basic and more advanced concepts in process driven SOA Illustrates how to manage the complexities of business aligned IT architectures with detailed examples and industry cases Outlines a step by step design process using proven patterns to address complex business technical scenarios Integrates SOA BPM and EDA into practical patterns promoting SOA 2 0 Describing how to synchronize parallel enterprise processes the authors explain how to cope with the architectural and design decisions you are likely to encounter when designing and implementing process driven SOA systems The decisions are described in the form of software patterns to provide you with a practical guideline for addressing key problems using time tested solutions

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