

Bpmn 2 0 Handbook Second Edition Introduction Futstrat

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BPMN 2.0 Handbook Second Edition - Stephen A. White 2011-12-01
Examines what's new and updated in BPMN 2.0 and look at interchange, best practice, analytics, conformance, optimization,

choreography from a technical perspective. Also addresses the business imperative for widespred adoption of the standard by examining best practice guidelines, BPMN busines strategy and the human

interface including real-life case studies. Other chapters tackle the practical aspects of making BPMN model executable and the basic time-line analysis of a BPMN model.

Insight into Theoretical and Applied Informatics

- Andrzej Yatsko

2015-01-01

The book is addressed to young people interested in computer technologies and computer science. The objective of this book is to provide the reader with all the necessary elements to get him or her started in the modern field of informatics and to allow him or her to become aware of the relationship between key areas of computer science. The book is addressed not only to future software developers, but also to all who are interested in computing in a widely understood sense. The

authors also expect that some computer professionals will want to review this book to lift themselves above the daily grind and to embrace the excellence of the whole field of computer science. Unlike existing books, this one bypasses issues concerning the construction of computers and focuses only on information processing. Recognizing the importance of the human factor in information processing, the authors intend to present the theoretical foundations of computer science, software development rules, and some business aspects of informatics in non-technocratic, humanistic terms.

The Basics of Process Mapping, 2nd Edition -

Robert Damelio

2011-05-11

The bestselling first edition of this

influential resource has been incorporated into the curriculum at forward thinking colleges and universities, a leading vocational technical institute, many in-house corporate continuous improvement approaches, and the United Nations' headquarters. Providing a complete and accessible introduction to process maps, The Basics of Process Mapping, Second Edition raises the bar on what constitutes the basics. Thoroughly revised and updated to keep pace with recent developments, it explains how relationship maps, cross-functional process maps (swimlane diagrams), and flowcharts can be used as a set to provide different views of work. New in the Second Edition: Four new chapters and 75 new

graphics An introduction to the concepts of flow and waste and how both appear in knowledge work or business processes A set of measures for flow and waste A discussion of problematic features of knowledge work and business processes that act as barriers to flow Seven principles* and 29 guidelines for improving the flow of knowledge work A detailed (actual) case study that shows how one organization applied the principles and guidelines to reduce lead time from an average of 28 days to 4 days Unlike "tool books" or "pocket guides" that focus on discrete tools in isolation, this text use a single comprehensive service work example that integrates all three maps, and illustrates the insights they provide when applied as a set. It contains how to procedures for

creating each type of map, and includes clear-cut guidance for determining when each type of map is most appropriate. The well-rounded understanding provided in these pages will allow readers to effectively apply all three types of maps to make work visible at the organization, process, and job/performer levels. *The Seven principles are integrated into Version 3 of the body of knowledge used for Lean certification by the ASQ/AME/SME/SHINGO Lean Alliance. This is the first publication of those principles and guidelines.

BPMN Modeling and Reference Guide - Stephen A. White 2008 Business Process Modeling Notation (BPMN) is a standard, graphical modeling representation for business processes. It provides an easy to

use, flow-charting notation that is independent of the implementation environment. An underlying rigor supports the notation-facilitating the translation of business level models into executable models that BPM Suites and workflow engines can understand. Over recent years, BPMN has been widely adopted by Business Process Management (BPM) related products-both the Business Process Analysis and Modeling tool vendors and the BPM Suites. This book is for business users and process modeling practitioners alike. Part I provides an easily understood introduction to the key components of BPMN (put forward in a user-friendly fashion). Starting off with simple models, it progresses into more sophisticated

patterns. Exercises help cement comprehension and understanding (with answers available online). Part II provides a detailed and authoritative reference on the precise semantics and capabilities of the standard.

Business Process Model and Notation - Remco Dijkman 2011-11-17

This book constitutes the proceedings of the third workshop on Business Process Model and Notation, BPMN 2011, held in Lucerne, Switzerland, in November 2011. The 8 research papers presented were carefully reviewed and selected from 20 submissions. In addition, 10 short papers are included. The workshop applied a thorough reviewing process, during which each paper was reviewed by three Program Committee members. The BPMN workshop series

provides a forum for academics and practitioners who share an interest in business process modeling using the business process modeling notation, which is seen by many as the de facto standard for business process modeling. This year, the workshop lasted two days and consisted of both a scientific and a practitioner event. *Essential Business Process Modeling* - Michael Havey 2005-08-18 Ten years ago, groupware bundled with email and calendar applications helped track the flow of work from person to person within an organization. Workflow in today's enterprise means more monitoring and orchestrating massive systems. A new technology called Business Process Management, or BPM, helps software architects and

developers design, code, run, administer, and monitor complex network-based business processes. BPM replaces those sketchy flowchart diagrams that business analysts draw on whiteboards with a precise model that uses standard graphical and XML representations, and an architecture that allows it converse with other services, systems, and users. Sound complicated? It is. But it's downright frustrating when you have to search the Web for every little piece of information vital to the process. Essential Business Process Modeling gathers all the concepts, design, architecture, and standard specifications of BPM into one concise book, and offers hands-on examples that illustrate BPM's approach to process notation, execution,

administration and monitoring. Author Mike Havey demonstrates standard ways to code rigorous processes that are centerpieces of a service-oriented architecture (SOA), which defines how networks interact so that one can perform a service for the other. His book also shows how BPM complements enterprise application integration (EAI), a method for moving from older applications to new ones, and Enterprise Service BUS for integrating different web services, messaging, and XML technologies into a single network. BPM, he says, is to this collection of services what a conductor is to musicians in an orchestra: it coordinates their actions in the performance of a larger composition. Essential Business Process

Modeling teaches you how to develop examples of process-oriented applications using free tools that can be run on an average PC or laptop. You'll also learn about BPM design patterns and best practices, as well as some underlying theory. The best way to monitor processes within an enterprise is with BPM, and the best way to navigate BPM is with this valuable book.

Workflow Patterns - Nick Russell 2016-02-12

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.

Business Rules: Management and Execution
- Gladys S.W. Lam
2020-03-17
Business rules describe

the operations, definitions and constraints that apply to an organization. Business rules can apply to people, processes, corporate behavior and computing systems in an organization, and are put in place to help the organization achieve its goals. Business Rules: Why Should You Use Them? This book helps corporate business readers to understand the meaning and impact of Business Rules within a variety of applications or scenarios such as: Why and how to use a rules-based approach to validate, transform, recalculate, and remediate complex applications The art of managing rules and terminology in a consistent, business-friendly, and shareable way How to use a rules engine to achieve uniformity, consistency,

continuous monitoring, transparency, flexibility, forecasting etc. Key technologies, vendors and implementers in this ecosystem.

The Complete Business Process Handbook - Mark von Rosing 2014-12-06

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 Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems - Alexandre Dolgui 2021-09-01 The five-volume set IFIP AICT 630, 631, 632, 633, and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2021, held in Nantes, France, in September 2021.* The 378 papers presented were carefully reviewed and selected

from 529 submissions. They discuss artificial intelligence techniques, decision aid and new and renewed paradigms for sustainable and resilient production systems at four-wall factory and value chain levels. The papers are organized in the following topical sections: Part I: artificial intelligence based optimization techniques for demand-driven manufacturing; hybrid approaches for production planning and scheduling; intelligent systems for manufacturing planning and control in the industry 4.0; learning and robust decision support systems for agile manufacturing environments; low-code and model-driven engineering for production system; meta-heuristics and optimization techniques for energy-oriented

manufacturing systems; metaheuristics for production systems; modern analytics and new AI-based smart techniques for replenishment and production planning under uncertainty; system identification for manufacturing control applications; and the future of lean thinking and practice Part II: digital transformation of SME manufacturers: the crucial role of standard; digital transformations towards supply chain resiliency; engineering of smart-product-service-systems of the future; lean and Six Sigma in services healthcare; new trends and challenges in reconfigurable, flexible or agile production system; production management in food supply chains; and sustainability in production planning and

lot-sizing Part III: autonomous robots in delivery logistics; digital transformation approaches in production management; finance-driven supply chain; gastronomic service system design; modern scheduling and applications in industry 4.0; recent advances in sustainable manufacturing; regular session: green production and circularity concepts; regular session: improvement models and methods for green and innovative systems; regular session: supply chain and routing management; regular session: robotics and human aspects; regular session: classification and data management methods; smart supply chain and production in society 5.0 era; and supply chain risk management under coronavirus Part IV: AI

for resilience in global supply chain networks in the context of pandemic disruptions; blockchain in the operations and supply chain management; data-based services as key enablers for smart products, manufacturing and assembly; data-driven methods for supply chain optimization; digital twins based on systems engineering and semantic modeling; digital twins in companies first developments and future challenges; human-centered artificial intelligence in smart manufacturing for the operator 4.0; operations management in engineer-to-order manufacturing; product and asset life cycle management for smart and sustainable manufacturing systems; robotics technologies for control, smart manufacturing and logistics; serious games analytics: improving

games and learning support; smart and sustainable production and supply chains; smart methods and techniques for sustainable supply chain management; the new digital lean manufacturing paradigm; and the role of emerging technologies in disaster relief operations: lessons from COVID-19
Part V: data-driven platforms and applications in production and logistics: digital twins and AI for sustainability; regular session: new approaches for routing problem solving; regular session: improvement of design and operation of manufacturing systems; regular session: crossdock and transportation issues; regular session: maintenance improvement and lifecycle management; regular session: additive

manufacturing and mass customization; regular session: frameworks and conceptual modelling for systems and services efficiency; regular session: optimization of production and transportation systems; regular session: optimization of supply chain agility and reconfigurability; regular session: advanced modelling approaches; regular session: simulation and optimization of systems performances; regular session: AI-based approaches for quality and performance improvement of production systems; and regular session: risk and performance management of supply chains *The conference was held online.
Handbook of Research on Business Process Modeling - Cardoso, Jorge 2009-04-30
"This book aids managers

in the transformation of organizations into world-class competitors through business process applications"--Provided by publisher.

BPMN Method and Style -

Bruce Silver 2011

BPMN 2.0 is the industry standard diagramming language for business process models. The meaning of the business process diagram is the same, regardless of the tool used to create it. But creating models that are correct, complete, and clear demands more than a dictionary of BPMN shapes and symbols. It also requires a methodology for translating process logic consistently into the diagram. And it requires a measure of modeling style as well, conventions that ensure that the process logic is unambiguous from the diagram by itself. In short, "good BPMN" requires a disciplined

approach called "method and style." In this book, Bruce Silver explains which BPMN elements process modelers need to understand, in two levels, including exactly where and how to use each element. Level 1 (the Descriptive modeling subclass of BPMN 2.0) is a palette of shapes and symbols largely carried over from traditional flowcharting. Level 2 (the Analytic subclass) expands the palette to be able to describe event-triggered behavior, critical to modeling exception handling. The book explains the real meaning of BPMN's most basic concepts - like activity, process, and end state - essential to using the language correctly, and provides a step-by-step methodology for going from a blank page to a

complete end-to-end BPMN model, developed from the top down in a hierarchical structure. From the top-level diagram you can see on a single page exactly how the process starts, its possible end states, what the instance represents, and communications with the Customer, service providers, and other processes. From there you can drill down to see the details of any part of the process.

Web Information Systems Engineering - Armin

Haller 2013-05-13

This book constitutes the revised selected papers of the combined workshops on Web Information Systems Engineering, WISE 2011 and WISE 2012, held in Sydney, Australia, in October 2011 and in Paphos, Cyprus, in November 2012. The seven workshops of WISE 2011-2012 have reported

the recent developments and advances in the contemporary topics in the related fields of: Advanced Reasoning Technology for e-Science (ART 2012), Cloud-Enabled Business Process Management (CeBPM 2012), Engineering in the Semantic Enterprise (ESE 2012), Social Web Analysis for Trend Detection (SoWeTrend 2012), Big Data and Cloud (BDC 2012), Personalization in Cloud and Service Computing (PC-S 2011), and User-Focused Service Engineering, Consumption and Aggregation (USECA 2011).

Bpmn 2.0 Handbook Second Edition - Michael zur Muehlen 2014-11-03

Authored by members of WfMC, OMG and other key participants in the development of BPMN 2.0, the BPMN 2.0 Handbook Second Edition assembles industry thought-leaders and international

experts. Following the ground-breaking body of work in the BPMN 2.0 Handbook First Edition this book is greatly expanded with substantial new content and chapters updated to the latest advances in this important standard. The authors examine a variety of aspects that start with an introduction of what's new and updated in BPMN 2.0, and look closely at interchange, best practices, analytics, conformance, optimization, choreography and more from a technical perspective. The authors also address the business imperative for widespread adoption of the standard by examining best practice guidelines, BPMN business strategy and the human interface including real-life case studies. Other critical chapters tackle the

practical aspects of making a BPMN model executable and the basic timeline analysis of a BPMN model. This book is for business people who want to understand the how and why of BPMN 2.0 in simple non-jargon terms and the strategy and motivation for its adoption within the corporation. It is also for the technical practitioner seeking current insights into the BPMN 2.0 standard and how to take advantage of its powerful capabilities.

Guide to BPMN 2.0
Technical Aspects *
Admission Process
Optimization with BPMN
and OSCO * Analytics for
Performance Optimization
of BPMN2.0 Business
Processes * Bespoke
Enterprise Architecture:
Tailoring BPMN 2.0 using
Conformance Classes *
BPMN 2.0 Interchange *
BPMN Extension for
Social BPM *

Collaborative Activities
Inside Pools * Making a
BPMN 2.0 Model
Executable * New
Capabilities for
Interaction Modeling in
BPMN 2 * New
Capabilities for Process
Modeling in BPMN 2 *
Refactoring BPMN Models
* Simulation for
Business Process
Management Guide to the
Business Imperative for
BPMN * Best Practice
Guidelines for BPMN 2.0
* BPMN and Business
Strategy: One Size Does
Not Fit All * BPMN Used
by Business
Professionals: An In-
depth Reflection on BPM
with BPMN by the Swiss
FOITT * Business Process
Integration in a Defense
Product-focused Company
* Human-Readable BPMN
Diagrams * Making BPMN
2.0 Fit for Full
Business Use * Multi-
faceted Business Process
Modeling Appendix
includes BPMN Supporters
list, XPDL 2.2 Guide,

BPMN Glossary, index and
more.
Computing Handbook,
Third Edition - Heikki
Topi 2014-05-14
Computing Handbook,
Third Edition:
Information Systems and
Information Technology
demonstrates the
richness and breadth of
the IS and IT
disciplines. The second
volume of this popular
handbook explores their
close links to the
practice of using,
managing, and developing
IT-based solutions to
advance the goals of
modern organizational
environments.
Established leading
experts and influential
young researchers
present introductions to
the current status and
future directions of
research and give in-
depth perspectives on
the contributions of
academic research to the
practice of IS and IT
development, use, and

management Like the first volume, this second volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world.

Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

A Handbook of Business Transformation Management Methodology -

Axel Uhl 2016-04-08

This book provides an integrative Business Transformation Management Methodology, the BTM2, with an emphasis on the balance

between the rational aspects of transformation and the often underestimated emotional readiness of employees to absorb and accept transformation initiatives. Comprising four phases - Envision, Engage, Transform, and Optimize - the methodology integrates expertise from areas such as strategy, risk, and project management. Covering the formal and informal structures and roles needed for a successful transformation, the authors cover a wide range of theory to help understand the phenomenon of transformation. A '360-degree' view on what business transformation means and how to manage it successfully, this handbook is suitable for business executives dealing with organizational change. A range of illustrative

case studies ensure this is also a valuable resource for academics interested in change and transformation management.

How Work Gets Done - Artie Mahal 2010-10-01
Rediscover how your organization works and where it can be improved by using simple, yet powerful techniques! *How Work Gets Done* will provide the business or IT professional with a practical working knowledge of Business Process Management (BPM). This book is written in a conversational style that encourages you to read it from start to finish and master these objectives:

- Learn how to identify the goals and drivers important to your organization and how to align these with key performance measures
- Understand how business strategies, business policies, and

operational procedures need to be connected within a Business Process Architecture

- Know the basic building blocks of any business process – Inputs, Outputs, Guides, and Enablers
- Learn how to create a BPM Center of Excellence in your organization
- Acquire the skills to establish a BPM methodology addressing Enterprise-level, Process-Level, and Implementation-Level priorities
- Learn how to build a Process Competency Framework encompassing all BPM stakeholders
- Obtain the knowledge to improve a process step-by-step with easy to use techniques and templates such as swimlanes and flowcharts

How Work Gets Done is a clear, concise, and well-navigated journey into the world of Business Processes and Business Process Management. From

a practical introduction through advanced topics around methodology and competencies, it is suitable for business process newcomers and seasoned practitioners alike. It should be required reading at all levels of every organization. Eugene Fucetola – Global Application Messaging and Integration, Operations Manager, Mars Information Services If you've always wished you had a very practical friend who could sit down and talk you through just what's involved improving how work gets done at your organization, this is the book! Paul Harmon – Executive Editor, Business Process Trends and Chief Methodologist, BPTrends Associates Artie Mahal has done something that was thought to be impossible – produce an easily readable book about

business process management. He paints pictures with words, offers many easy-to-grasp analogies, and stimulates with simplifying charts of complex concepts. Leon Fraser – Lecturer, Rutgers Business School **Real-life BPMN** - Jakob Freund 2012

There is an improved new edition of this book available, hence this first edition is no longer available for sale. This book is about Business Process Management (BPM) and Business Process Model and Notation (BPMN 2.0). Truth be told, there are several BPMN books on the market. Some of them are quite good, so why should you care about this one? This book distills the experience the authors accumulated while running camunda, a consulting company that specializes in BPM. camunda helped to define

the BPMN specification, and during the past five years, they have applied BPMN in over 250 customer engagements. These were big businesses, small companies, and public institutions. Now you can benefit from this practical experience. Topics covered: The basics of modeling processes with Business Process Model and Notation (BPMN 2.0) Methods to apply BPMN successfully to real-world problems A practical approach for automating processes with BPMN 2.0 The alignment of business and IT as an attainable goal Advice on introducing BPMN across your company This book explains the notation, of course, but it also delves into the kinds of challenges that process designers face every day. It talks about pitfalls to avoid. It

gives dos and don'ts. There are guidelines and best practices. This first edition in English is based on the successful third German edition, which, according to amazon.de, it is still the highest-ranked book on BPMN in German. The number of five-star ratings awarded by readers speaks volumes. Also available in Spanish. Advanced Information Systems Engineering - Matthias Jarke 2014-06-05 This book constitutes the proceedings of 26th International Conference on Advanced Information Systems Engineering, CAiSE 2014, held in Thessaloniki, Greece in June 2014. The 41 papers and 3 keynotes presented were carefully reviewed and selected from 226 submissions. The accepted papers were presented in 13 sessions: clouds and

services; requirements;
product lines;
requirements
elicitation; processes;
risk and security;
process models; data
mining and streaming;
process mining; models;
mining event logs;
databases; software
engineering.

Scaling BPM Adoption:
From Project to Program
with IBM Business

Process Manager - Lisa
Dyer 2012-10-04

Your first Business
Process Management (BPM)
project is a crucial
first step on your BPM
journey. It is important
to begin this journey
with a philosophy of
change that allows you
to avoid common pitfalls
that lead to failed BPM
projects, and
ultimately, poor BPM
adoption. This IBM®
Redbooks® publication
describes the
methodology and best
practices that lead to a
successful project and

how to use that success
to scale to enterprise-
wide BPM adoption. This
updated edition contains
a new chapter on
planning a BPM project.
The intended audience
for this book includes
all people who
participate in the
discovery, planning,
delivery, deployment,
and continuous
improvement activities
for a business process.
These roles include
process owners, process
participants, subject
matter experts (SMEs)
from the operational
business, and
technologists
responsible for
delivery, including BPM
analysts, BPM solution
architects, BPM
administrators, and BPM
developers.

Software Technologies -
Marten van Sinderen
2019-08-12

This book constitutes
the thoroughly refereed
post-conference

proceedings of the 13th International Joint Conference on Software Technologies, ICSOFT 2018, held in Porto, Portugal, in July 2018. The 18 revised full papers were carefully reviewed and selected from 117 submissions. The topics covered in the papers include: business process modelling, IT service management, interoperability and service-oriented architecture, project management software, scheduling and estimating, software metrics, requirements elicitation and specification, software and systems integration, etc.

Soft Computing

Applications - Valentina Emilia Balas 2015-11-02
These volumes constitute the Proceedings of the 6th International Workshop on Soft Computing Applications,

or SOFA 2014, held on 24-26 July 2014 in Timisoara, Romania. This edition was organized by the University of Belgrade, Serbia in conjunction with Romanian Society of Control Engineering and Technical Informatics (SRAIT) - Arad Section, The General Association of Engineers in Romania - Arad Section, Institute of Computer Science, Iasi Branch of the Romanian Academy and IEEE Romanian Section. The Soft Computing concept was introduced by Lotfi Zadeh in 1991 and serves to highlight the emergence of computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability, robustness and low solution cost. Soft computing facilitates the use of fuzzy logic,

neurocomputing, evolutionary computing and probabilistic computing in combination, leading to the concept of hybrid intelligent systems. The combination of such intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains. The conference papers included in these proceedings, published post conference, were grouped into the following area of research:

- Image, Text and Signal Processing
- Intelligent Transportation Modeling and Applications
- Biomedical Applications
- Neural Network and Applications
- Knowledge-Based Technologies for Web Applications, Cloud Computing, Security,

Algorithms and Computer Networks Knowledge-Based Technologies Soft Computing Techniques for Time Series Analysis Soft Computing and Fuzzy Logic in Biometrics Fuzzy Applications Theory and Fuzzy Control Business Process Management Methods and Applications in Electrical Engineering

The volumes provide useful information to professors, researchers and graduated students in area of soft computing techniques and applications, as they report new research work on challenging issues.

BPMN Method and Style - Bruce Silver 2009

Creating business process models that can be shared effectively across the business - and between business and IT - demands more than a digest of BPMN shapes and symbols. It requires a step-by-step methodology for going

from a blank page to a complete process diagram. It also requires consistent application of a modeling style, so that the modeler's meaning is clear from the diagram itself. Author Bruce Silver explains not only the meaning and proper usage of the entire BPMN 2.0 palette, but calls out the working subset that you really need to know. He also reveals the hidden assumptions of core concepts left unexplained in the spec, the key to BPMN's deeper meaning. The book addresses BPMN at three levels, with primary focus on the first two. Level 1, or descriptive BPMN, uses a basic working set of shapes and symbols to meet the needs of business users doing process mapping. Level 2, or analytical BPMN, is aimed at business analysts and architects. It takes

advantage of BPMN's expressiveness for detailing event and exception handling, key to analyzing and improving process performance and quality. Level 3, or executable BPMN, is brand new in BPMN 2.0. Here the XML underneath the diagram shapes becomes an executable design can be deployed to a process engine to automate the process. The method and style detailed in the book aligns these three levels, facilitating business-IT collaboration throughout the process lifecycle. Inside the book you'll find discussions, illustrated with over 100 examples, about: The questions BPMN asks, and does not ask The meaning of basic concepts like starting and completing, sending and receiving, waiting and listening Subprocesses and hierarchical modeling

style The five basic steps in creating Level 1 models Event and exception-handling patterns Branching and merging patterns Level 2 modeling method Elements of BPMN style: element usage and diagram composition

Fundamentals of Business Process Management -

Marlon Dumas 2018-03-23
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 interdisciplinary 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.

The Decision Model -
Barbara von Halle
2009-10-27

In the current fast-paced and constantly changing business environment, it is more important than ever for organizations to be agile, monitor business performance, and meet with increasingly

stringent compliance requirements. Written by pioneering consultants and bestselling authors with track records of international success, *The Decision Model: A Business Logic Framework Linking Business and Technology* provides a platform for rethinking how to view, design, execute, and govern business logic. The book explains how to implement the Decision Model, a stable, rigorous model of core business logic that informs current and emerging technology. The authors supply a strong theoretical foundation, while succinctly defining the path needed to incorporate agile and iterative techniques for developing a model that will be the cornerstone for continual growth. Because the book introduces a new model with tentacles in many disciplines, it is

divided into three sections: Section 1: A Complete overview of the Decision Model and its place in the business and technology world Section 2: A Detailed treatment of the foundation of the Decision Model and a formal definition of the Model Section 3: Specialized topics of interest on the Decision Model, including both business and technical issues The Decision Model provides a framework for organizing business rules into well-formed decision-based structures that are predictable, stable, maintainable, and normalized. More than this, the Decision Model directly correlates business logic to the business drivers behind it, allowing it to be used as a lever for meeting changing business objectives and marketplace demands.

This book not only defines the Decision Model and but also demonstrates how it can be used to organize decision structures for maximum stability, agility, and technology independence and provide input into automation design.

Delivering Competitive Advantage - Layna Fischer 2012-10-01

Some organizations significantly outperform others in their industry. They become more agile by adopting smarter work practices and transforming their business processes to be more dynamic, collaborative, and connected. Often, the business processes themselves create competitive advantage. Increased revenue at reduced cost makes more money for a very effective business. Changing market opportunities, customer

demands, new technology and calls for cost reduction can make it seem impossible to keep operational chaos at bay. Competitive advantage is gained when companies reduce operational risk by making sure that internal guidelines and external regulatory requirements are fulfilled. Companies thus offer customers a faster, more accurate and consistent service. To position your organization for success, you need the ability to continually optimize, streamline and align business processes to meet changing business needs for greater performance, competitive advantage and to drive growth. The companies whose award-winning case studies are featured in this book have proven excellence in their creative and successful deployment of

advanced and business process management concepts. The positive impact to their corporations includes increased revenues, more productive and satisfied employees, product enhancements, better customer service and quality improvements. BPMN 2.0 - Thomas Allweyer 2016-04-07 BPMN (Business Process Model and Notation) is the established standard for business process modeling. Only a few years after its first publication, it has gained widespread adoption in practice. All important modeling tools support BPMN diagramming. It is possible to create business-oriented diagrams, but also technical models for process execution in business process management systems (BPMS). This book provides a stepwise

introduction to BPMN, using many examples close to practice. Starting with the basic elements for modeling sequence flow, all BPMN 2.0 diagrams are presented and discussed in detail. You will gain a profound understanding of the complete notation, and you will be able to make correct use of the different language elements. In the second edition, a collection of useful modeling patterns has been added. These patterns provide best-practice solutions for typical problems arising in the practice of process modeling.

The MicroGuide to Process Modeling in BPMN 2.0 - Tom Debevoise 2011
With over fifty implementations, Business Process Modeling Notation (BPMN) is an increasingly successful Object Management Group (OMG)

standard. Whether you are in government, manufacturing, or business, you can easily and accurately depict your company's processes in BPMN. BPMN Specification 1.1, however, can be abstract, lengthy, and complicated. As a result, learning to use BPMN can be daunting and force professionals to steer clear of it without an efficient and easy way of getting acquainted with the material. The straightforward information that is packed into this book is exactly what is needed. This guide gathers all the ideas, design, and problem-solving of BPMN into one simple, focused book, and offers concrete true-life examples that explain BPMN's approach to process modeling. With the wide-scale adoption of BPMN2.0, a new era

for process modeling has arisen. In their second edition, Tom and Rick continue with the most concise coverage of BPMN available. They cover more 'real-life' business scenarios and model more unstructured, monitored and indefinite activities. The text not only incorporate new metaphors of events and decision-directed event processing, it also covers 15 different design patterns, forged in the furnace of practical, state-of-the-art process modeling, that provide a shortcut to a proven design. The material in this comprehensive, focused book has been gleaned from actual practices and proven in many of the most advanced processes in production today. Build visible, agile and powerful process that meet the needs of a chaotic and globally federated

environment. This book will teach you to tackle modern process modeling challenges. REVIEWS: "Finding a succinct and accessible book on the Business Process Modeling Notation (BPMN) is a pleasure. Finding one that clearly lays out the role of decisions and business rules in business processes is a delight. The MicroGuide to Business Process Management in BPMN is a short, easy to read book that gives a solid grounding in the core concepts of BPMN, passes on some realworld experience and suggestions from the authors, and gives great, practical advice on how use cases, BPMN, decision management and business rules all come together. Tom Debevoise and Rick Geneva have done a great job in outlining the Process Modeling Framework,

introducing BPMN, and showing how it can be used. If BPMN is (or will be) part of your world, this book should be on your shelves." - James Taylor, Author Smart (Enough) Systems "It should be a valuable addition to a practitioner's library. I found the PMF and application to use case language to be of particular interest, as well as the relationship between business processes and business rules."- Stan Hendryx, Hendryx & Associates *Delivering the Customer-centric Organization* - Layna Fischer 2012-01-01 Customer-centric organizations are concerned about shrinking volumes of business, stiffer competition and ever-more demanding consumer expectations which have increased pressure on the bottom line. The ability to successfully

manage the customer value chain across the life cycle of a customer is the key to the survival of any company today. Business processes must react to changing and diverse customer needs and interactions to ensure efficient and effective outcomes. This important book looks at the shifting nature of consumers and the workplace, and how BPM and associated emergent technologies will play a part in shaping the companies of the future. BPM's promises are real, but the path to success is littered with pitfalls and shortcuts to failure. Best practices can help you avoid them. If you are just embarking on using its methods and tools, these authors have a wealth of experience to learn from and build on. Whether you are a business manager or an

Information Technology practitioner, this special collection will provide valuable information about what BPM can do for you-and how to apply it.

BIM Handbook - Rafael Sacks 2018-07-03

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the

business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team.

Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information

modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Learning UML 2.0 - Russ Miles 2006-04-25

With its clear introduction to the Unified Modeling Language (UML) 2.0, this tutorial offers a solid understanding of each topic, covering foundational concepts of object-orientation and an introduction to each of the UML diagram types.

Handbook of Conceptual Modeling - David W. Embley 2012-04-23
Conceptual modeling is

about describing the semantics of software applications at a high level of abstraction in terms of structure, behavior, and user interaction. Embley and Thalheim start with a manifesto stating that the dream of developing information systems strictly by conceptual modeling – as expressed in the phrase “the model is the code” – is becoming reality. The subsequent contributions written by leading researchers in the field support the manifesto's assertions, showing not only how to abstractly model complex information systems but also how to formalize abstract specifications in ways that let developers complete programming tasks within the conceptual model itself. They are grouped into sections on programming with conceptual models,

structure modeling, process modeling, user interface modeling, and special challenge areas such as conceptual geometric modeling, information integration, and biological conceptual modeling. The Handbook of Conceptual Modeling collects in a single volume many of the best conceptual-modeling ideas, techniques, and practices as well as the challenges that drive research in the field. Thus it is much more than a traditional handbook for advanced professionals, as it also provides both a firm foundation for the field of conceptual modeling, and points researchers and graduate students towards interesting challenges and paths for how to contribute to this fundamental field of computer science.

Enterprise Architecture

at Work - Marc Lankhorst
2012-08-20

An enterprise architecture tries to describe and control an organisation's structure, processes, applications, systems and techniques in an integrated way. The unambiguous specification and description of components and their relationships in such an architecture requires a coherent architecture modelling language. Lankhorst and his co-authors present such an enterprise modelling language that captures the complexity of architectural domains and their relations and allows the construction of integrated enterprise architecture models. They provide architects with concrete instruments that improve their architectural practice. As this is not enough, they

additionally present techniques and heuristics for communicating with all relevant stakeholders about these architectures. Since an architecture model is useful not only for providing insight into the current or future situation but can also be used to evaluate the transition from 'as-is' to 'to-be', the authors also describe analysis methods for assessing both the qualitative impact of changes to an architecture and the quantitative aspects of architectures, such as performance and cost issues. The modelling language presented has been proven in practice in many real-life case studies and has been adopted by The Open Group as an international standard. So this book is an ideal companion for enterprise IT or business

architects in industry as well as for computer or management science students studying the field of enterprise architecture.

Handbook on Business Process Management 2 -

Jan vom Brocke

2014-08-28

Business Process

Management (BPM) has

become one of the most

widely used approaches

for the design of modern

organizational and

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conscious treatment of

business processes as

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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

second volume focuses on

the managerial and organizational challenges of BPM such as strategic and cultural alignment, governance and the education of BPM stakeholders. As such, this book provides concepts and methodologies for the integration of BPM. 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.

Activiti in Action -

Tijs Rademakers

2012-07-11

Summary Activiti in

Action is a

comprehensive tutorial designed to introduce developers to the world of business process modeling using Activiti.

Before diving into the nuts and bolts of

Activiti, this book presents a solid

introduction to BPMN 2.0

from a developer's

perspective. About the

Technology Activiti

streamlines the

implementation of your

business processes: with

Activiti Designer you

draw your business process using BPMN. Its XML output goes to the Activiti Engine which then creates the web forms and performs the communications that implement your process. It's as simple as that. Activiti is lightweight, integrates seamlessly with standard frameworks, and includes easy-to-use design and management tools. About the Book Activiti in Action introduces developers to business process modeling with Activiti. You'll start by exploring BPMN 2.0 from a developer's perspective. Then, you'll quickly move to examples that show you how to implement processes with Activiti. You'll dive into key areas of process modeling, including workflow, ESB usage, process monitoring, event handling, business rule engines, and

document management integration. Written for business application developers. Familiarity with Java and BPMN is helpful but not required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Activiti from the ground up Dozens of real-world examples Integrate with standard Java tooling Table of Contents PART 1 INTRODUCING BPMN 2.0 AND ACTIVITI Introducing the Activiti framework BPMN 2.0: what's in it for developers? Introducing the Activiti tool stack Working with the Activiti process engine PART 2 IMPLEMENTING BPMN 2.0 PROCESSES WITH ACTIVITI Implementing a BPMN 2.0 process Applying advanced BPMN 2.0 and extensions Dealing with error

handling Deploying and configuring the Activiti Engine Exploring additional Activiti modules PART 3 ENHANCING BPMN 2.0 PROCESSES Implementing advanced workflow Integrating services with a BPMN 2.0 process Ruling the business rule engine Document management using Alfresco Business monitoring and Activiti PART 4 MANAGING BPMN 2.0 PROCESSES? Managing the Activiti Engine

Handbook on Business Process Management 1 - Jan vom Brocke
2014-08-29

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.

Learning BPMN 2.0 -
Joshua Fuehrer
2018-10-04

Do you ever think of how you learn--reading, watching, doing? Maybe you use all three. Many of us go through life unaware of how we learn or acquire a skill set; we just learn it. We all have the capability to

learn. It is from that perspective and with a passion for business process modeling with Business Process Modeling and Notation (BPMN) that Dr. Joshua Fuehrer and Joseph Butchko set out to write a book that will provide an understanding of BPMN while engaging in the adult learning process for acquiring knowledge. Learning BPMN 2.0 is intended to bridge the gap between theory and practice. While the focus is on learning BPMN, this book will also teach foundational concepts for business process improvement, while maintaining a balance between academia and real-world examples. Through research, anecdotal evidence, and a collection of various resources and videos Learning BPMN 2.0 will help you grasp ideas and transform information in innovative ways. In the

end you will have a greater understanding on how to apply BPMN in a way that communicates your organizations business and technical process models.

Learning BPMN 2.0 -

Joshua Fuehrer 2022-10

Do you ever think of how you learn-by reading, watching, listening, and doing? Maybe you use all four? Many of us go through life unaware of how we learn or acquire a skill set; we just learn it. We all have the capability to learn. From that perspective and with a passion for business process modeling with Business Process Modeling and Notation (BPMN), we set out to write a book that will provide an understanding of BPMN while engaging in the adult learning process for acquiring knowledge. This book will bridge the gap between theory and practice and make it

interesting while you are doing it! While we focus on learning BPMN, we also teach foundational concepts, a balance between academia and real-world examples related to creating knowledge, moving up the spiral of knowledge. With each spiral, more insight is gained, and better understanding is attained. With the second edition, we provide a perspective to help you use BPMN to relay technical designs from engineers to stakeholders and vice-versa. We also discuss how BPMN helps document and convey architectural decisions to future versions of your team so they can quickly identify solutions without having to reverse engineer code every time. Reviewing a diagram is much easier than rebuilding an architecture from legacy source code! So grab

your copy, and start learning the right way, today!

Process Mining Techniques in Business Environments - Andrea

Burattin 2015-05-12

After a brief presentation of the state of the art of process-mining techniques, Andrea Burratin proposes different scenarios for the deployment of process-mining projects, and in particular a characterization of companies in terms of their process awareness. The approaches proposed in this book belong to two different computational paradigms: first to classic "batch process mining," and second to more recent "online process mining." The book encompasses a revised version of the author's PhD thesis, which won the "Best Process Mining Dissertation Award" in

2014, awarded by the IEEE Task Force on Process Mining.

How Knowledge Workers Get Things Done -

Nathaniel Palmer

2012-01-01

Highly predictable work is easy to support using traditional programming techniques, while unpredictable work cannot be accurately scripted in advance, and thus requires the involvement of the knowledge workers themselves. The core element of Adaptive Case Management (ACM) is the support for real-time decision-making by knowledge workers. How Knowledge Workers Get Things Done describes the work of managers, decision makers, executives, doctors, lawyers, campaign managers, emergency responders, strategist, and many others who have to think for a living. These are people who

figure out what needs to be done, at the same time that they do it, and there is a new approach to support this presents the logical starting point for understanding how to take advantage of ACM. Keith Swenson points out, "We are seeing a fundamental shift in our workforce, and in the ways they need to be managed. Not only are companies engaging their customers in new ways, but managers are engaging workers in similarly transformed ways." In award-winning case studies covering

industries as a diverse as law enforcement, transportation, insurance, banking, state services, and healthcare, you will find instructive examples for how to transform your own organization. This important book follows the ground-breaking ACM publications, *Taming the Unpredictable* and *Mastering the Unpredictable* and provides important papers by thought-leaders in this field, together with practical examples, detailed ACM case studies and product reviews.