

Jboss 61 Documentation

Geschäftsprozesse in Unternehmen sind häufig ereignisgesteuert. Denn im Geschäftsumfeld treten Ereignisse auf, auf die angemessen und möglichst in Echtzeit reagiert werden muss, etwa in Sensornetzwerken oder im automatischen Wertpapierhandel. Event-Driven Architecture (EDA) ist ein neues Paradigma der Softwarearchitektur, das auf der Verarbeitung von Ereignissen beruht. Das Buch diskutiert die Grundprinzipien von EDA, führt in die wichtigsten Konzepte der Ereignisverarbeitung ein und veranschaulicht deren Umsetzung anhand einer Fallstudie.

E-learning is still in its infancy. This can be seen both in the limited pedagogical quality and lack of portability of e-learning content, and in the lack of user-friendly tools to exploit the opportunities offered by current technologies. To be successful, e-learning must offer effective and attractive courses and programmes to learners, while at the same time providing a pleasant and effective work environment for staff members who have the task to develop course materials, plan the learning processes, provide tutoring, and assess performance. To overcome these deficiencies, the IMS Global Learning Consortium Inc. released the Learning Design Specification in 2003. With Learning Design it is possible to develop and present advanced, interoperable e-learning courses embracing educational role and game playing methods, problem-based learning, learning community approaches, adaptivity and peer coaching and assessment methods. In this handbook Koper and Tattersall have put together contributions from members of the "Valkenburg Group", consisting of 33 experts deeply involved in e-learning and more specifically learning design. The result is a rich and lasting source of information for both e-learning course and tool developers, providing information about the specification itself, how to implement it in practice, what tools to use, and what pitfalls to avoid. The book not only reports first experiences, but also goes beyond the current state of the art by looking at future prospects and emerging applications.

A guide to using open source software covers such topics as assessing open source business models, selecting open source software, and locating technical support.

Java for Web with Servlets, JSP and EJB is the one book you need to master Java web programming. It covers all the technologies needed to program web applications in Java using Servlets 2.3, JSP 1.2, EJB 2.0 and client-side programming with JavaScript. These technologies are explained in the context of real-world projects, such as an e-commerce application, a document management program, file upload and programmable file download, and an XML-based online book project. In addition to excellent content, this book includes licenses to two Java web components from BrainySoftware.com. You receive a full license of the Programmable File Download component for commercial and non-commercial deployment. You are also granted to a license to deploy the author's popular File Upload bean for non-commercial use, which has been licensed by the Fortune 500 company Commerce One and purchased by major corporations such as Saudi Business Machine, Ltd. and Baxter Healthcare Corporation.

Explains how to create management systems with JMX, create MBeans and services, and use the MBean server, and offers working examples of topics including JMX connectors and agent discovery.

* First book on enterprise development using Eclipse * First J2EE Standard Tools (JST) book to market * Based on latest Eclipse 3 standard—a hot topic

This book presents 5 tutorial lectures given by leading researchers at the 15th edition of the International School on Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2015, held in Bertinoro, Italy, in June 2015. SFM 2015 was devoted to multicore programming and covered topics such as concurrency and coordination mechanisms, architecture and memory models and type systems.

The problems encountered by a beginning Java programmer are many--and mostly minor. The problems you encounter as an experienced Java programmer are far fewer—and far more serious. Java Programming 10-Minute Solutions provides direct solutions to the thorny problems you're most likely to run up against in your work. Especially when a project entails new techniques or draws you into a realm outside your immediate expertise, potential headaches abound. With this book, a veteran Java programmer saves you both aggravation and—just as important—time. Here are some of the solutions you'll find inside: Parsing XML using SAX and DOM, and using XSLT to transform XML to HTML Java file I/O: copying and deleting entire directories Using Java search algorithms Thread management Leveraging Java Web Services support in SOAP, XML-RPC, and XML over HTTP Low-level JDBC programming Using servlets and JSPs (including struts) for web applications Using Enterprise JavaBeans (EJBs) container managed persistence Generating EJB classes with ant and XDoclet Using JUnit for unit testing Modeled after the straightforward Q&A approach of the DevX website, these in-depth, code-intensive solutions help you past obstacles right now and ultimately make you a smarter, more effective programmer.

Many bookstores offer numerous choices of books on Java Server Programming; however, most of these books are intricate and complex to grasp. So, what are your chances of picking up the right one? If this question has been troubling you, be rest assured now! This book, Java Server Programming: Java EE 5 (J2EE 1.5) Black Book, Platinum Edition, is a one-time reference book that covers all aspects of Java EE in an easy-to-understand approach for example, how an application server runs; how GlassFish Application server deploys a Java application; a complete know-how of design patterns, best practices, and design strategies; working with Java related technologies such as NetBeans IDE 6.0, Hibernate, Spring, and Seam frameworks; and proven solutions using the key Java EE technologies, such as JDBC, Servlets, JSP, JSTL, RMI, JNDI, JavaMail, Web services, JCA, Struts, JSF, UML, and much more& All this, as the book explores these concepts with appropriate examples and executable applications no doubt, every aspect of the book is worth its price.

ERP to E2RP: A Case Study Approach is a comprehensive and well-organized book that covers the wide aspects of ERP and E2RP. The text highlights the details of operational and supporting processes related to industry verticals, namely, manufacturing, healthcare and construction. It presents general implementation methodologies as well as specific methodologies prescribed by Oracle and SAP for the implementation of their products. The book contains few sample business processes that are mapped with the help of ERP product screens. Part I of the book focusses on ERP including the concepts, evolution, various business processes in different verticals and implementation methodologies. Part II of the book explicates the concept of E2RP. Apart from that, this part describes its need, major functionality of its modules,

namely, supply chain management, customer relationship management, business intelligence and employee focus portals (intranet). Moreover, topics related to new emerging technologies (i.e., open source ERP and cloud ERP) and knowledge management are also covered in this part. Following a simple and engaging style, this book is primarily designed for the undergraduate students of computer science and engineering, information technology and also for the postgraduate students of management and computer application. Key Features Incorporates numerous Case Studies that are based on face to face interaction with the organizations. Includes several pedagogical features such as chapterwise summary, exercises and assignments. Provides glossary at the end of the book.

Open source has had a profound effect on the Java community. Many Java open source projects have even become de-facto standards. The principal purpose of Enterprise Java Development on a Budget is to guide you through the development of a real enterprise Java application using nothing but open source Java tools, projects, and frameworks. This book is organized by activities and by particular open source projects that can help you take on the challenges of building the different tiers of your applications. The authors also present a realistic example application that covers most areas of enterprise application development. You'll find information on how to use and configure JBoss, Ant, XDoclet, Struts, ArgoUML, OJB, Hibernate, JUnit, SWT/JFace, and others. Not only will you learn how to use each individual tool, but you'll also understand how to use them in synergy to create robust enterprise Java applications within your budget. Enterprise Java Development on a Budget combines coverage of best practices with information on the right open source Java tools and technologies, all of which will help support your Java development budget and goals.

The second instance of the international summer school on Generative and Transformational Techniques in Software Engineering (GTTSE 2007) was held in Braga, Portugal, during July 2–7, 2007. This volume contains an augmented selection of the material presented at the school, including full tutorials, short tutorials, and contributions to the participants workshop. The GTTSE summer school series brings together PhD students, lecturers, technology presenters, as well as other researchers and practitioners who are interested in the generation and the transformation of programs, data, models, metamodels, documentation, and entire software systems. This concerns many areas of software engineering: software reverse and re-engineering, model-driven engineering, automated software engineering, generic language technology, to name a few. These areas differ with regard to the specific sorts of metamodels (or grammars, schemas, formats etc.) that underlie the involved artifacts, and with regard to the specific techniques that are employed for the generation and the transformation of the artifacts. The first instance of the school was held in 2005 and its proceedings appeared as volume 4143 in the LNCS series.

Learn how to successfully implement trustworthy computing tasks using aspect-oriented programming This landmark publication fills a gap in the literature by not only describing the basic concepts of trustworthy computing (TWC) and aspect-oriented programming (AOP), but also exploring their critical interrelationships. The author clearly demonstrates how typical TWC tasks such as security checks, in-and-out conditions, and multi-threaded safety can be implemented using AOP. Following an introduction, the book covers: Trustworthy computing, software engineering, and computer science Aspect-oriented programming and Aspect.NET Principles and case studies that apply AOP to TWC Coverage includes Aspect.NET, the AOP framework developed by the author for the Microsoft.NET platform, currently used in seventeen countries. The author discusses the basics of Aspect.NET architecture, its advantages compared to other AOP tools, and its functionality. The book has extensive practical examples and case studies of trustworthy software design and code using the Aspect.NET framework. In addition, the book explores other software technologies and tools for using AOP for trustworthy software development, including Java and AspectJ. This book also includes a valuable chapter dedicated to ERATO, the author's teaching method employed in this book, which has enabled thousands of students to quickly grasp and apply complex concepts in computing and software engineering, while the final chapter presents an overall perspective on the current state of AOP and TWC with a view toward the future. Software engineers, architects, developers, programmers, and students should all turn to this book to learn this tested and proven method to create more secure, private, and reliable computing.

Distributed applications are difficult to write as programmers need to adhere to specific distributed systems programming conventions and frameworks, which makes distributed systems development complex and error prone and ties the resultant application to the distributed system because the application's code is tangled with the crosscutting concern distribution. This book introduces the concept of a domain-specific aspect language called a Distribution Definition Language that generalises the distribution and distribution recovery concerns by describing the classes and methods of an existing application to be made remote, the distributed system to use to make them remote and the recovery mechanism to use in the event of an error. A software tool in the form of the RemoteJ compiler/generator that uses information contained in the Distribution Definition Language to generate the recovery and distributed system specific code and apply it to the application using bytecode manipulation and generation techniques is introduced. By allowing distribution and autonomic features, such as recovery, to be modularised and applied to existing applications this approach greatly simplifies distributed systems and autonomics development. This book is of particular interest to researchers and students of distributed systems, autonomics, domain-specific aspect languages and aspect-orientation. This book constitutes the refereed proceedings of the ACM/IFIP/USENIX 9th International Middleware Conference 2008, held in Leuven, Belgium, in December 2008. The 21 revised full papers presented were carefully reviewed and selected from 117 submissions for inclusion in the book. The papers are organized in topical sections on platforms extended to new capabilities, advanced software engineering focusing on specific system properties, system management techniques, as well as components and system algorithms and properties.

Topic: In the open source, full-text search community, a leader emerges – Apache Solr. Apache Solr enables you to index and access documents orders of magnitude faster than classical databases and thereby provides a first-class

search experience to your end users. **Brief Description:** Mastering Apache Solr is a practical, hands-on guide containing crisp, relevant, systematically arranged, and progressive chapters. These chapters contain a wealth of information presented in a direct and easy-to-understand manner. This book covers key technical concepts, highlighting Solr's supremacy over classical databases in full-text search, which will help you accelerate your progress in the Solr world. **Detailed Description:** Mastering Apache Solr starts with an introduction to Apache Solr, its underlying technologies, the main differences between the classical database engines, and gradually moves to more advanced topics like boosting performance. In this book, we will look under the hood of a large number of topics and discuss answers to pertinent questions like why denormalize data, how to import classical databases' data inside Apache Solr, how to serve Solr through five different web servers, how to optimize them to serve Solr even faster. An important and major topic covered in this book is Solr's querying mechanism, which will prove to be a strong ally in our journey through this book. We then look at boosting performance and deploying Solr using several servlet servers. Finally, we cover how to communicate with Solr using different programming languages, before deploying it in a cloud-based environment. **Who this book is for:** Mastering Apache Solr has been written for developers, programmers, and data specialists who want to take a leap towards the future of full-text storage and search and offer a world-class experience to their users. The reader is expected to have a working knowledge of traditional databases, Linux-based operating systems, and XML configuration files. **Style and Approach:** Mastering Apache Solr is written lucidly and has a dynamically simple approach. From the first page to the last, the book remains practical and focuses on the most important topics used in the world of Apache Solr without neglecting important theoretical fundamentals that help you build a strong foundation. **Conclusion:** Mastering Apache Solr will empower you to provide a world-class search experience to your end users through the discovery of the powerful mechanisms presented in this book.

What is this book about? Open source technology enables you to build customized enterprise portal frameworks with more flexibility and fewer limitations. This book explains the fundamentals of a powerful set of open source tools and shows you how to use them. An outstanding team of authors provides a complete tutorial and reference guide to Java Portlet API, Lucene, James, and Slide, taking you step-by-step through constructing and deploying portal applications. You trace the anatomy of a search engine and understand the Lucene query syntax, set up Apache James configuration for a variety of servers, explore object to relational mapping concepts with Jakarta OJB, and acquire many other skills necessary to create J2EE portals uniquely suited to the needs of your organization. Loaded with code-intensive examples of portal applications, this book offers you the know-how to free your development process from the restrictions of pre-packaged solutions. **What does this book cover?** Here's what you will learn in this book: How to evaluate business requirements and plan the portal How to develop an effective browser environment How to provide a search engine, messaging, database inquiry, and content management services in an integrated portal application How to develop Web services for the portal How to monitor, test, and administer the portal How to create portlet applications compliant with the Java Portlet API How to reduce the possibility of errors while managing the portal to accommodate change How to plan for the next generation application portal **Who is this book for?** This book is for professional Java developers who have some experience in portal development and want to take advantage of the options offered by open source tools.

Brimming with over 100 "recipes" for getting down to business and actually doing XP, the Java Extreme Programming Cookbook doesn't try to "sell" you on XP; it succinctly documents the most important features of popular open source tools for XP in Java--including Ant, Junit, Http'nit, Cactus, Tomcat, XDoclet--and then digs right in, providing recipes for implementing the tools in real-world environments.

Beginning with a survey of fundamental concepts associated with data integration, knowledge representation, and hypothesis generation from heterogeneous data sets, *Methods in Biomedical Informatics* provides a practical survey of methodologies used in biological, clinical, and public health contexts. These concepts provide the foundation for more advanced topics like information retrieval, natural language processing, Bayesian modeling, and learning classifier systems. The survey of topics then concludes with an exposition of essential methods associated with engineering, personalized medicine, and linking of genomic and clinical data. Within an overall context of the scientific method, *Methods in Biomedical Informatics* provides a practical coverage of topics that is specifically designed for: (1) domain experts seeking an understanding of biomedical informatics approaches for addressing specific methodological needs; or (2) biomedical informaticians seeking an approachable overview of methodologies that can be used in scenarios germane to biomedical research. Contributors represent leading biomedical informatics experts: individuals who have demonstrated effective use of biomedical informatics methodologies in the real-world, high-quality biomedical applications. Material is presented as a balance between foundational coverage of core topics in biomedical informatics with practical "in-the-trenches" scenarios. Contains appendices that function as primers on: (1) Unix; (2) Ruby; (3) Databases; and (4) Web Services.

Learn how to correctly utilize the most popular Object-Relational Mapping tool for your Enterprise application **About This Book** Understand the internals of Hibernate and its architecture, and how it manages Entities, Events, Versioning, Filters, and Cache **Observe** how Hibernate bridges the gap between object-oriented concepts and relational models **Discover** how Hibernate can address architectural concerns such as Transaction, Database Multi-tenancy, Clustering, and Database Shards **Who This Book Is For** Mastering Hibernate is intended for those who are already using or considering using Hibernate as the solution to address the problem of Object Relational Mapping. If you are already using Hibernate, this book will help you understand the internals and become a power user of Hibernate. **What You Will Learn** Understand the internals of a Hibernate session and how Entities are managed **Declare** better mapping between entity classes and database tables **Manage** entity associations and collections **Fetch** data not just by entity ID, but also using HQL, Criteria Objects, Filters, and Native SQL **Observe** the first and second level caches and find out how to manage them **Collect**

statistics and metrics data for further observation Make your application work with multi-tenant databases In Detail Hibernate has been so successful since its inception that it even influenced the Java Enterprise Edition specification in that the Java Persistence API was dramatically changed to do it the Hibernate way. Hibernate is the tool that solves the complex problem of Object Relational Mapping. It can be used in both Java Enterprise applications as well as .Net applications. Additionally, it can be used for both SQL and NoSQL data stores. Some developers learn the basics of Hibernate and hit the ground quickly. But when demands go beyond the basics, they take a reactive approach instead of learning the fundamentals and core concepts. However, the secret to success for any good developer is knowing and understanding the tools at your disposal. It's time to learn about your tool to use it better This book first explores the internals of Hibernate by discussing what occurs inside a Hibernate session and how Entities are managed. Then, we cover core topics such as mapping, querying, caching, and we demonstrate how to use a wide range of very useful annotations. Additionally, you will learn how to create event listeners or interceptors utilizing the improved architecture in the latest version of Hibernate. Style and approach This book takes a close look at the core topics, and helps you understand the complex topics by showing you examples and giving you in-depth discussions.

- Explains security concepts in simple terms and relates these to standards, Java APIs, software products and day-to-day job activities of programmers. - Written by a practitioner who participated in the development of a J2EE App Server and Web Services Platform at HP. - Applied security measures demonstrated on Java APIs - a unique feature of the book. Provides information on creating applications that collect, analyze, and act on the data that is left by users on the Web. Implement application programming interface (API) usability, security, availability, reliability, and scalability to extend your company's market and potentially generate revenue. Businesses know they need to extend their markets into the digital world, and expose internal data to the Internet. This book shows how stakeholders within an organization can make it a successful journey. Stakeholder needs are not identical and departments experience difficulties discussing requirements with each other due to their different fundamental understanding of the process. The goal of this book is to introduce a common language for all business groups—developers, security experts, architects, product managers—around APIs and provide an overview of all aspects that need to be considered when exposing internal data. Most of the content in this book is based on feedback from real-world enterprise customer questions, challenges, and business scenarios. Practical guidance is provided on the business value of APIs, the general requirements to know, and how to undertake an audience-based implementation. You will learn how to protect access to data, as well as API error handling, documentation, management, integration, and more. What You'll Learn Know the types of APIs and their business and technical requirements The main benefits of APIs, including business value, loose coupling, and frequent updates Protect access to APIs through role-based access, attribute-based access, and rate limiting Distinguish between OAuth and OpenID Connect, and know how they both work Manage API error handling, including what should and should not be handled Understand the distinction between runtime, dynamic data, and static data Leverage external APIs as part of your own APIs Who This Book Is For API developers, API security experts, software architects, product owners, and business owners

Thanks to the tireless efforts of open-source developers, Cocoon has quickly gained visibility as the preeminent XML-based Webpublishing framework. Unfortunately, its documentation remains a significant shortcoming. If you're new to Cocoon, gaining a sense of exactly what you can do with it can be difficult, and actually getting started can be even harder. Cocoon 2 Programming: Web Publishing with XML and Java clearly explains the value of Cocoon and helps you build on your familiarity with XML and Java Servlets as you design, build, and implement a range of Cocoon applications. You'll begin by learning to control presentation for various platforms, both wired and wireless. Then you'll move on to Cocoon's capabilities for logic control and content management, using both sitemaps and XSP to create a site dynamically generated from a variety of data sources and types. As you'll see, Cocoon also supports powerful organizing techniques known as design patterns, and you'll master their use in both presentation and content generation. These are essential tools for the planning of your site; for after it's implemented, you'll command powerful techniques for site management and optimization. The Web's dependence on XML is growing rapidly--and with it the list of companies that have adopted Cocoon. Is Cocoon for you? Cocoon 2 Programming will guide you through your decision and far beyond, providing all the assistance you need to build a dynamic, XML-based site--and keep moving into the future.

The biggest online threat to businesses and consumers today is ransomware, a category of malware that can encrypt your computer files until you pay a ransom to unlock them. With this practical book, you'll learn how easily ransomware infects your system and what steps you can take to stop the attack before it sets foot in the network. Security experts Allan Liska and Timothy Gallo explain how the success of these attacks has spawned not only several variants of ransomware, but also a litany of ever-changing ways they're delivered to targets. You'll learn pragmatic methods for responding quickly to a ransomware attack, as well as how to protect yourself from becoming infected in the first place. Learn how ransomware enters your system and encrypts your files Understand why ransomware use has grown, especially in recent years Examine the organizations behind ransomware and the victims they target Learn how wannabe hackers use Ransomware as a Service (RaaS) to launch campaigns Understand how ransom is paid—and the pros and cons of paying Use methods to protect your organization's workstations and servers

Describes Java application development on Linux, covering such topics as business-logic object analysis, Java servlet UIs, JSP, Swing GUIs, and database design.

"This book is for professional Java developers who already know how to build sophisticated applications and have at least a general familiarity with databases, Java application development, and Web development. No prior experience with Hibernate is required."--BOOK JACKET.

Java 2 Enterprise Edition (J2EE) is the specification that all enterprise Java developers need to build multi-tier

applications, and also the basis for BEA's WebLogic Application Server and IBM's WebSphere Revised to be current with the significant J2EE 1.4 update that will drive substantial developer interest Written by a top-selling team of eleven experts who provide unique and substantial business examples in a vendor-neutral format, making the information applicable to various application servers Covers patterns, J2EE application servers, frameworks, Ant, and continuous availability Includes extensive intermediate and advanced coverage of J2EE APIs Companion Web site provides additional examples and information

??????EJB 3????????????,??EJB 3?????EJB 3???????Java???API?EJB 3????????????,???

It's a plain fact: regardless of how smart, creative, and innovative your organization is, there are more smart, creative, and innovative people outside your organization than inside. Open source offers the possibility of bringing more innovation into your business by building a creative community that reaches beyond the barriers of the business. The key is developing a web-driven community where new types of collaboration and creativity can flourish. Since 1998 Ron Goldman and Richard Gabriel have been helping groups at Sun Microsystems understand open source and advising them on how to build successful communities around open source projects. In this book the authors present lessons learned from their own experiences with open source, as well as those from other well-known projects such as Linux, Apache, and Mozilla. * Winner of 2006 Jolt Productivity Award for General Books * Describes how open source development works and offers persuasive reasons for using it to help achieve business goals. * Shows how to use open source in day-to-day work, discusses the various licenses in use, and describes what makes for a successful project. * Written in an engaging style for executives, managers, and engineers that addresses the human and business issues involved in open source development as well as its history, philosophy, and future

"This book provides knowledge and insights on present and future AI applications in Operations Management presenting tools and decisions in terms of theoretical and empirical models, methods and proposed applications"--Provided by publisher.

Enterprise JavaBeans, Fourth Edition, is the definitive guide to EJB 2.1. It shows you how to build complex, mission-critical systems using snap-together software components that model business objects and processes. EJB 2.1 makes several important steps forward in EJB technology: message-driven beans are much more flexible, a time service has been added, and EJBs have been integrated with web services. Enterprise JavaBeans delivers on a promise that was astonishing a few years ago: not only can EJBs run without modification on any operating system, they can run on any J2EE application server. However, after writing EJBs, you have to deploy them in an application server, and deploying EJBs can be a painful task. This edition includes the Jboss Workbook, which shows you how to deploy the examples on the open source JBoss Application Server. If you've done any enterprise software development in the past few years, you already know the extent to which EJB has changed the field. Use this book to catch up on the latest developments. If you're new to enterprise software development, or if you haven't been working with EJB, this book will bring you up to speed on this exciting technology for building business systems.

"This book provides a comprehensive collection of state-of-the-art advancements in rule languages"--Provided by publisher.

Hibernate and MongoDB are a powerful combination of open source persistence and NoSQL technologies for today's Java-based enterprise and cloud application developers. Hibernate is the leading open source Java-based persistence, object relational management engine, recently repositioned as an object grid management engine. MongoDB is a growing, popular open source NoSQL framework, especially popular among cloud application and big data developers. With these two, enterprise and cloud developers have a "complete out of the box" solution. Pro Hibernate and MongoDB shows you how to use and integrate Hibernate and MongoDB. More specifically, this book guides you through the bootstrap; building transactions; handling queries and query entities; and mappings. Then, this book explores the principles and techniques for taking these application principles to the cloud, using the OpenShift Platform as a Service (PaaS) and more. In this book, you get two case studies: An enterprise application using Hibernate and MongoDB. then, A cloud application (OpenShip) migrated from the enterprise application case study After reading or using this book, you come away with the experience from two case studies that give you possible frameworks or templates that you can apply to your own specific application or cloud application building context.

The two-volume set LNAI 10061 and 10062 constitutes the proceedings of the 15th Mexican International Conference on Artificial Intelligence, MICAI 2016, held in Cancún, Mexico, in October 2016. The total of 86 papers presented in these two volumes was carefully reviewed and selected from 238 submissions. The contributions were organized in the following topical sections: Part I: natural language processing; social networks and opinion mining; fuzzy logic; time series analysis and forecasting; planning and scheduling; image processing and computer vision; robotics. Part II: general; reasoning and multi-agent systems; neural networks and deep learning; evolutionary algorithms; machine learning; classification and clustering; optimization; data mining; graph-based algorithms; and intelligent learning environments.

Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful, precise, and efficient. This book provides the right combination of architecture, design, and implementation information to create analytical systems that go beyond the basics of classification, clustering, and recommendation. Pro Hadoop Data Analytics emphasizes best practices to ensure coherent, efficient development. A complete example system will be developed using standard third-party components that consist of the tool kits, libraries, visualization and reporting code, as well as support glue to provide a working and extensible end-to-end system. The book also highlights the importance of end-to-end, flexible, configurable, high-performance data pipeline systems with analytical components as well as appropriate visualization results. You'll discover the importance of mix-and-match or hybrid systems, using different analytical components in one application. This hybrid approach will be prominent in the examples. What You'll Learn Build big data analytic systems with the Hadoop ecosystem Use libraries, tool kits, and algorithms to make development easier and more effective Apply metrics to measure performance and efficiency of components and systems Connect to standard relational databases, noSQL data sources, and more Follow case studies with example components to create your own systems Who This Book Is For Software engineers, architects, and data scientists with an interest in the design and implementation of big data analytical systems using Hadoop, the Hadoop ecosystem, and other associated technologies.

[Copyright: 9436964783c97f8c92791201fb8dc5b7](https://www.dbooks.org/doc/9436964783c97f8c92791201fb8dc5b7)