

# **Constructing Intelligent Agents Using Java Professional Developers Guide 2nd Edition 2nd Edition By Bigus Joseph P Bigus Jennifer 2001 Paperback**

**Joshua Bloch**

*Constructing Intelligent Agents with Java* Joseph P. Bigus, Jennifer Bigus, 1998-01-07 Intelligent Agents with Java(TM) A Programmer's Guide to Smarter Applications Add Artificial Intelligence to your Java applications \* Learn to design and implement agent-based reasoning, modeling, and learning \* Build your own personal assistants, Web agents, e-commerce agents, and multiagent systems. Learn how to create intelligent agents that can automate, mediate, and administer basic business functions. Java makes it easier than ever for programmers to build complex agents that reason and learn. In this book, enterprise programming experts Joe and Jennifer Bigus show you how to take advantage of Java's advanced features to differentiate your applications and build the smartest high-powered applications possible. The authors explain the principles of AI program design using Java's object-oriented features and present the essential AI algorithms used to develop agents that reason, model, and learn to adapt to the world around them. They then show how to apply these algorithms and techniques in practical real-world distributed computing applications. They develop an intelligent agent architecture and use it to construct several agent-enhanced programs, including a PC management agent, an adaptive Internet news reader that filters articles based on user preferences, and an electronic marketplace application where agents do the buying and selling. The enclosed CD-ROM gives you: \* Complete source code for Java implementations of AI search algorithms, rule-based inferencing, and neural network learning \* Java source code for three practical intelligent agent applications \* The IBM Agent Building Environment (ABE) Developer's Toolkit

[Constructing Intelligent Agents Using Java](#) Joseph P. Bigus, Jennifer Bigus, 2001-03-27 Additional information available via the Internet.

**Constructing Intelligent Agents Using Java** Joseph P. Bigus, 2001-01-01

**Constructing Intelligent Agents Using Java** Joseph P. Bigus, Jennifer Bigus, 2001 A state-of-the-art guide on how to build intelligent Web-based applications using Java Joseph and Jennifer Bigus update and significantly expand their book on

building intelligent Web-based applications using Java. Geared to network programmers or Web developers who have previously programmed agents in Smalltalk or C++, this practical book explains in detail how to construct agents capable of learning and competing, including both design principles and actual code for personal agents, network or Web agents, multi-agent systems and commercial agents. New and revised coverage includes agent tools, agent uses for Web applications (including personalization, cross-selling, and e-commerce), and additional AI technologies such as fuzzy logic and genetic algorithms.

**Forthcoming Books** Rose Arny,2001-06

Java 2 For Dummies Barry A. Burd,2004-08-26 This updated bestseller covers programming essentials for the newest version of Java, the popular platform-independent, object-oriented programming language The material is fully updated and focuses on the new Java SDK1.5, addressing the needs of new or inexperienced Java developers The fun and easy writing style walks readers through Java syntax basics and helps them write their first program Shows readers how to create basic Java objects and figure out when they can reuse existing code The new edition is also modified to better address the readers who may have some programming knowledge, but who are new to Java

*Using Java 2 Platform* Joe Weber,1999 Special Edition Using Java 2 Platform is the complete programmer's tutorial/reference for Java 2 and related technologies. The book contains detailed descriptions of Sun's Java 2 standards, APIs, class libraries, and programming tools. Also includes coverage of Microsoft's Java SDK 2.0, -AFC, and RNI products, ActiveX, CORBA, Java IDL, Joe, JavaBeans, and Enterprise JavaBeans. Over 20,000 lines of documented Java code show programmers the details of building sophisticated Java applications.

*Machine Learning: End-To-End Guide for Java Developers* Richard M. Reese, Jennifer L. Reese, Bostjan Kaluza, Uday Kamath, Krishna Choppella, 2017-10-05 Develop, Implement and Tuneup your Machine Learning applications using the power of Java programming About This Book\* Detailed coverage on key machine learning topics with an emphasis on both theoretical and practical aspects\* Address predictive modeling problems using the most popular machine learning Java libraries\* A comprehensive course covering a wide spectrum of topics such as machine learning and natural language through practical use-cases Who This Book Is For This course is the right resource for anyone with some knowledge of Java programming who wants to get started with Data Science and Machine learning as quickly as possible. If you want to gain meaningful insights from big data and develop intelligent applications using Java, this course is also a must-have. What You Will Learn\* Understand key data analysis techniques centered around machine learning\* Implement Java APIs and various techniques such as classification, clustering, anomaly detection, and more\* Master key Java machine learning libraries, their functionality, and various kinds of problems that can be addressed using each of them\* Apply machine learning to real-world data for fraud detection, recommendation engines, text classification, and human activity recognition\* Experiment with semi-

supervised learning and stream-based data mining, building high-performing and real-time predictive models\* Develop intelligent systems centered around various domains such as security, Internet of Things, social networking, and moreIn DetailMachine Learning is one of the core area of Artificial Intelligence where computers are trained to self-learn, grow, change, and develop on their own without being explicitly programmed. In this course, we cover how Java is employed to build powerful machine learning models to address the problems being faced in the world of Data Science. The course demonstrates complex data extraction and statistical analysis techniques supported by Java, applying various machine learning methods, exploring machine learning sub-domains, and exploring real-world use cases such as recommendation systems, fraud detection, natural language processing, and more, using Java programming. The course begins with an introduction to data science and basic data science tasks such as data collection, data cleaning, data analysis, and data visualization. The next section has a detailed overview of statistical techniques, covering machine learning, neural networks, and deep learning. The next couple of sections cover applying machine learning methods using Java to a variety of chores including classifying, predicting, forecasting, market basket analysis, clustering stream learning, active learning, semi-supervised learning, probabilistic graph modeling, text mining, and deep learning.The last section highlights real-world test cases such as performing activity recognition, developing image recognition, text classification, and anomaly detection. The course includes premium content from three of our most popular books:\* Java for Data Science\* Machine Learning in Java\* Mastering Java Machine LearningOn completion of this course, you will understand various machine learning techniques, different machine learning java algorithms you can use to gain data insights, building data models to analyze larger complex data sets, and incubating applications using Java and machine learning algorithms in the field of artificial intelligence.Style and approachThis comprehensive course proceeds from being a tutorial to a practical guide, providing an introduction to machine learning and different machine learning techniques, exploring machine learning with Java libraries, and demonstrating real-world machine learning use cases using the Java platform.

*Hands-On Artificial Intelligence with Java for Beginners* Nisheeth Joshi,2018-08-31 Build, train, and deploy intelligent applications using Java libraries Key Features Leverage the power of Java libraries to build smart applications Build and train deep learning models for implementing artificial intelligence Learn various algorithms to automate complex tasks Book Description Artificial intelligence (AI) is increasingly in demand as well as relevant in the modern world, where everything is driven by technology and data. AI can be used for automating systems or processes to carry out complex tasks and functions in order to achieve optimal performance and productivity. Hands-On Artificial Intelligence with Java for Beginners begins by introducing you to AI concepts and algorithms. You will learn about various Java-based libraries and frameworks that can be used in implementing AI to build smart applications. In addition to this, the book teaches you how to implement easy to complex AI tasks, such as genetic programming, heuristic searches, reinforcement learning, neural networks, and

segmentation, all with a practical approach. By the end of this book, you will not only have a solid grasp of AI concepts, but you'll also be able to build your own smart applications for multiple domains. What you will learn Leverage different Java packages and tools such as Weka, RapidMiner, and Deeplearning4j, among others Build machine learning models using supervised and unsupervised machine learning techniques Implement different deep learning algorithms in Deeplearning4j and build applications based on them Study the basics of heuristic searching and genetic programming Differentiate between syntactic and semantic similarity among texts Perform sentiment analysis for effective decision making with LingPipe Who this book is for Hands-On Artificial Intelligence with Java for Beginners is for Java developers who want to learn the fundamentals of artificial intelligence and extend their programming knowledge to build smarter applications.

Effective Java, 2nd Edition Joshua Bloch, 2016-05-14 Are you looking for a deeper understanding of the Java(tm) programming language so that you can write code that is clearer, more correct, more robust, and more reusable? Look no further! Effective Java(tm), Second Edition, brings together seventy-eight indispensable programmer's rules of thumb: working, best-practice solutions for the programming challenges you encounter every day. This highly anticipated new edition of the classic, Jolt Award-winning work has been thoroughly updated to cover Java SE 5 and Java SE 6 features introduced since the first edition. Bloch explores new design patterns and language idioms, showing you how to make the most of features ranging from generics to enums, annotations to autoboxing. Each chapter in the book consists of several items presented in the form of a short, standalone essay that provides specific advice, insight into Java platform subtleties, and outstanding code examples. The comprehensive descriptions and explanations for each item illuminate what to do, what not to do, and why. Highlights include: New coverage of generics, enums, annotations, autoboxing, the for-each loop, varargs, concurrency utilities, and much more Updated techniques and best practices on classic topics, including objects, classes, libraries, methods, and serialization How to avoid the traps and pitfalls of commonly misunderstood subtleties of the language Focus on the language and its most fundamental libraries: java.lang, java.util, and, to a lesser extent, java.util.concurrent and java.io Simply put, Effective Java(tm), Second Edition, presents the most practical, authoritative guidelines available for writing efficient, well-designed programs.

**Java and Algorithmic Thinking for the Complete Beginner** Aristides Bouras, 2024-06-20 Dive into the world of Java and algorithmic thinking with this book. This comprehensive guide for beginners covers everything from basic computer operations to advanced programming concepts. Key Features Introduction to Java & algorithmic thinking with a proper guide from basic to advanced concepts Tips and tricks to enhance programming efficiency, and exercises for real-world application Detailed exploration of control structures, data structures, and subprograms Book Description Begin your programming journey with a comprehensive course designed to introduce you to the world of Java and algorithmic thinking. The course starts by laying a solid foundation with an understanding of how computers work and an introduction to integrated

development environments. As you advance, you'll delve into essential Java concepts, learning about variables, constants, and basic algorithmic concepts that are crucial for any aspiring programmer. Moving forward, the course offers a deep dive into more complex topics, including handling input and output, using operators, and creating trace tables. You'll get hands-on experience with Visual Studio Code and explore sequence control structures, manipulating numbers, and crafting complex mathematical expressions. In the final stages, the course covers advanced topics such as data structures, subprograms, and object-oriented programming. You'll learn to manipulate one-dimensional and two-dimensional arrays, work with HashMaps, and understand the intricacies of user-defined subprograms. The course concludes with a focus on file management and offers numerous tips and tricks to enhance your programming efficiency. By the end, you'll have a strong foundation in Java programming and algorithmic thinking, well-prepared to tackle more advanced challenges.

What you will learn

- Understand the fundamentals of how computers work
- Master Java programming basics and IDEs
- Develop proficiency in handling operators, and trace tables
- Implement sequence and decision control structures in programming
- Manipulate numbers, strings, and complex expressions
- Utilize arrays, HashMaps, and other data structures effectively

Who this book is for

This course is perfect for complete beginners with no prior programming experience, including high school students and hobbyists. It is also suitable for those with a basic understanding of computers who wish to deepen their knowledge of Java and algorithmic thinking. Additionally, college students in non-computer science majors, professionals seeking a career change into tech, and educators looking to incorporate programming into their curriculum will benefit from this comprehensive guide. No prerequisites are required, making it accessible to anyone eager to learn.

*Ant* Steve Holzner, 2005-04-13 *Ant* is the premiere build management tool for use in Java environments. Unlike traditional build management tools such as GNU Make, *Ant* is itself written in Java, is platform independent, and interfaces well with the utilities in Sun's Java software development kit (SDK). In addition to being platform independent, *Ant* is also independent of the integrated development environment (IDE) being used. IDE independence is important for open source projects (or other projects) in which the various developers might use different IDEs. Using *Ant*, Java developers can: define build chunks, the results that they must produce, and the dependencies between them; automatically retrieve source code from source control systems such as PVCS; build applications by having *Ant* compile the necessary source files in the proper order. *Ant* build files are written using XML---a well-established standard---so programmers using *Ant* are not required to learn yet another scripting language. They will likely already know XML, and will be able to leverage that knowledge. *Ant* is an open source project, and part of the Jakarta project. Jakarta is Sun's open source reference implementation for the JSP and Servlets specifications, and is part of the Apache group's work.

*Object-oriented Software Development Using Java* Xiaoping Jia, 2003 Jia (software engineering, DePaul University) helps readers develop skills in designing software, and especially in writing object-oriented programs using Java. The text provides

broad coverage of object-oriented technology, including object-oriented modeling using the Unified Modeling Language (UML), object-oriented design using design patterns, and object-oriented programming using Java. This second edition offers expanded coverage of design patterns, enhanced material on UML, and a new introduction to the iterative software development process made popular by extreme programming. Learning features include chapter summaries, exercises, and projects.

*Modern Software Development Using Java* Paul T. Tymann, G. Michael Schneider, 2008 Now updated for the latest release of Java, the Second Edition of *Modern Software Development Using Java* continues to blaze a new path for today's CS2 students. Tymann and Schneider's contemporary approach focuses on what students need to learn in the CS2 course in order to appreciate what is truly important today in the areas of software design and development. This text covers such current software development ideas as object-oriented design, UML, data structure libraries, net-centric programming, threads, and GUIs, all presented in a way that is fully accessible and motivating. The new edition has been fully revised to take advantage of the new features in Java 5.0, and all material is Java 6.0 compliant.

*Ant in Action: Second Edition of Java Development with Ant* Steve Loughran, Erik Hatcher, 2007-08-23 *Ant in Action* is a complete guide to using Ant to build, test, redistribute and deploy Java applications. A retitled second edition of the bestselling and award-winning *Java Development with Ant*, this book contains over 50% new content. The book covers nearly the entire gamut of modern Java application development, including test-driven development and even how to set up your database as part of the deployment. · Learning Ant · Applying Ant · Extending Ant

*Ant in Action* Steve Loughran, Erik Hatcher, 2007 Introduces the build tool for Java application development, covering both user defined and built-in tasks.

*Java 2 Exam Cram* William B. Brogden, 2001 Annotation *Java 2 Exam Cram*, 2nd Edition is the updated and revised version of the best selling *Java 2 Exam Cram*. This highly acclaimed and well-recognized study guide provides an intense preparation program for programmers gearing up for the Sun Certified Java Programmer, Java 2 exam (310-025). The book's well organized, concise layout provides thorough coverage of test content and objectives like learning Java language fundamentals, creating Java classes, building GUIs with the AWT Components, and working with flow control and exceptions. Includes the proven Exam Cram features of helpful hints and tips, test taking strategies, realistic case studies, tear-out cram sheets, and challenging practice questions.

### **Object-oriented Software Development Using Java** Xiaoping Jia, 2000

*Intelligent Data Engineering and Automated Learning - IDEAL 2002* Hujun Yin, Nigel Allinson, Richard Freeman, John Keane, Simon Hubbard, 2003-08-02 This book constitutes the refereed proceedings of the Third International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2002, held in Manchester, UK in August 2002. The 89 revised

papers presented were carefully reviewed and selected from more than 150 submissions. The book offers topical sections on data mining, knowledge engineering, text and document processing, internet applications, agent technology, autonomous mining, financial engineering, bioinformatics, learning systems, and pattern recognition.

**Mobile Agents** William R. Cockayne, Michael Zyda, 1998 Like human agents, Internet agents can move independently in a network of locations to perform their tasks, all the while making independent decisions. Their behavior can provide astonishing solutions not even dreamed of today. Mobile Agents will help you understand their amazing potential for business applications and show you in detail how to create and use the power of agent technologies.

Reviewing **Constructing Intelligent Agents Using Java Professional Developers Guide 2nd Edition 2nd Edition By Bigus Joseph P Bigus Jennifer 2001 Paperback**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Constructing Intelligent Agents Using Java Professional Developers Guide 2nd Edition 2nd Edition By Bigus Joseph P Bigus Jennifer 2001 Paperback**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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