

# **Programmation orientée aspect pour Java/J2EE**

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# Programmation Orientée Aspect Pour Java2ee

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## **Programmation Orientee Aspect Pour JavaJ2ee:**

Software Architecture Ron Morrison, Flavio Oquendo, 2005-06-20 The 1st European Workshop on Software Architecture EWSA 2004 was held in St Andrews, Scotland on 21-22 May 2004. The workshop provided an international forum for researchers and practitioners from academia and industry to discuss a wide range of topics in the area of software architecture and to jointly formulate an agenda for future research. We were pleased to continue this forum in EWSA 2005. The importance of software architecture as a fundamental area of software engineering continues to grow. In addition to describing the underlying structure of software systems, architectures are now being used to model and understand dynamic behavior. New areas of study which have their roots in control systems are beginning to emerge. The field of autonormics requires an underlying software architecture to describe the executing computation as does any control system that involves system evolution. The range of papers in EWSA 2005 reflected both the traditional and new applications of software architecture techniques. EWSA 2005 distinguished between three types of papers: research papers which describe authors' novel research work; a case study which describes experiences related to software architectures; and position papers which present concise arguments about a topic of software architecture research or practice.

The Programme Committee selected 18 papers, 12 research papers, 4 position papers, 1 case study and 1 unrefereed invited paper out of 41 submissions from 20 countries: Australia, Belgium, Brazil, Chile, China, Czech Republic, Finland, France, Germany, India, Italy, Ireland, Korea, Netherlands, Pakistan, Portugal, Spain, Switzerland, UK, USA. All submissions were reviewed by at least three members of the Programme Committee. Papers were selected based on originality, quality, soundness and relevance to the workshop.

Credit for the quality of the proceedings goes to all authors of papers. *Refactoring des applications Java/J2EE* Jean-Philippe Retaillé, 2011-07-07. Améliorer la qualité et la volatilité des applications Java J2EE. Le refactoring consiste à refondre le code source d'une application existante ou en cours de développement pour l'améliorer la qualité avec pour objectif une réduction des coûts de maintenance et une meilleure volatilité. L'ouvrage passe en revue les différentes techniques de refactoring utilisées en environnement Java J2EE: extraction de méthodes, généralisation, introduction de design patterns.

programmation orientée aspect, optimisation de l'accès aux données, etc. Un livre pratique illustrant une étude de cas d'une taille moyenne dans le détail le processus de refactoring d'une application Java J2EE mise en place de l'infrastructure et des outils d'analyse de la conception et du code de l'application mise en œuvre des techniques de refonte, tests de non-régression. Cette démarche est illustrée par une étude de cas complète de refactoring d'une application Java J2EE Open Source, l'aide d'outils tels que Eclipse, CVS, JUnit et PMD. *Spring par la pratique - Spring 2.5 et 3.0* Arnaud Cogolouèges, Thierry Templier, Julien Dubois, Jean-Philippe Retaillé, 2011-07-07. Tirez le meilleur parti de Java EE avec Spring. Cet ouvrage montre comment développer des applications Java EE professionnelles performantes, l'aide du framework Spring. L'ouvrage présente les concepts sur lesquels reposent Spring, conteneur, injection de dépendances, programmation orientée aspect avant de détailler les différences entre les deux approches.

rentes facettes du développement d'applications d'entreprise avec Spring couche présentation persistance des données et gestion des transactions intégration avec d'autres applications et sa sécurité applicative. Cette seconde édition présente en détail les nouveautés majeures des versions 2.5 et 3.0 de Spring et de ses modules annexes modulaire de programmation basé sur les annotations Spring Dynamic Modules for OSGi, Spring Batch, Spring Security, SpringSource dm Server, etc. L'accent est mis tout particulièrement sur les bonnes pratiques de conception et de développement qui sont illustrées à travers une étude de cas d'taille et le projet Open Source Tudu Lists. Sur le site [www.springparlapratique.org](http://www.springparlapratique.org), dialoguez avec les auteurs et participez au forum de discussion. Accédez au code source de l'étude de cas du livre. Découvrez les commentaires et mises à jour. Téléchargez les annexes au format pdf.

*Spring par la pratique* Julien Dubois, Jean-Philippe Retaillé, Thierry Templier, 2011-07-07. Simplifier le développement des applications Java J2EE. Cet ouvrage montre comment développer des applications Java J2EE professionnelles et performantes grâce à Spring associé à d'autres frameworks populaires telles que Struts, Hibernate ou Axis. Spring s'appuie sur des concepts modernes tels que la notion de conteneur, l'ger, l'inversion de contrôle ou la programmation orientée aspect afin d'améliorer l'architecture des applications Java J2EE en les rendant plus souples, plus rapides, plus faciles à tester et plus faciles à déployer. Un livre pratique illustrant une étude de cas d'taille. L'ouvrage présente les concepts sur lesquels reposent Spring avant de détailler les différentes facettes du développement d'applications Web avec Spring couche présentation, Struts, Spring MVC, Spring Web Flow, portlets, applications Ajax, persistance des données et gestion des transactions intégration avec d'autres applications et sa sécurité applicative. L'accent est mis tout particulièrement sur les bonnes pratiques de conception et de développement qui sont illustrées à travers une étude de cas d'taille et le projet Open Source Tudu Lists. Sur le site [www.editions-eyrolles.com](http://www.editions-eyrolles.com), dialoguez avec les auteurs. Téléchargez le code source de l'étude de cas du livre.

**Programmation orientée aspect pour Java/J2EE** Renaud Pawlak, Jean-Philippe Retaillé, Lionel Seinturier, 2004. La programmation orientée aspect POA peut être implémentée sous forme d'extension d'un langage existant. Cet ouvrage comprend quatre parties présentant des concepts de la POA, présentation et comparatif des principaux outils de POA du monde Java applications de la POA, étude de cas d'taille et utilisation de la POA dans une application J2EE.

**Java Persistence et Hibernate** Anthony Patricio, 2011-07-07. Gestion optimale de la persistance dans les applications Java JEE. Avec JPA, Java Persistence API, composante essentielle des spécifications EJB 3, le monde Java JEE dispose enfin d'un standard fiable et efficace pour la gestion de la persistance et du mapping objet relationnel. Largement inspiré du pragmatisme de Hibernate et tirant parti d'une avancée majeure de Java SE 5, les annotations Java Persistence privilient la simplicité de développement en plaçant les modifications de persistance au cœur du code Java SE ou EE et en relevant les descripteurs XML aux cases extraites. Un livre pratique illustrant une étude de cas d'taille. À la fois pratique et didactique, cet ouvrage décrit les différentes facettes de l'API et de son implémentation Hibernate, en montrant comment les mettre en œuvre à travers une étude de cas clinique au fil des chapitres. Il

insiste tout particulièrement sur la définition des annotations et l'utilisation du gestionnaire d'entités en environnement Java SE ou Java EE ainsi que sur les aspects méthodologiques et sur les questions de performances mapping de modèles objets ou de schémas relationnels complexes et la récupération efficace des objets persistants. La concurrence et persistance transitive configuration des pools de connexions et des caches de second niveau, etc. L'ouvrage montre également comment repousser les limites de Java Persistence API grâce aux possibilités d'optimisation et aux extensions offertes par Hibernate. Sur le site [www.editions-eyrolles.com](http://www.editions-eyrolles.com), dialoguez avec l'auteur. Consultez les mises à jour et compléments. Téléchargez le code source de l'étude de cas **Développement JEE 5 avec Eclipse Europa** Karim Djaafar, 2011-07-07. Ressolument pratique, cet ouvrage montre comment utiliser de manière cohérente et efficace les différents outils de la suite Eclipse Europa combinés des frameworks tels que JBoss Seam pour couvrir l'ensemble du cycle de développement d'une application.

**Hibernate 3.0** Anthony Patricio, 2011-07-07. Gestion optimale de la persistance dans les applications Java J2EE. Standard de fait, Hibernate est proposé comme la solution idéale pour gérer le délicat problème de la persistance des objets Java J2EE par mapping vers les bases de données.

**MDA en action** Xavier Blanc, Olivier Salvatori, 2011-07-07. Les modèles au service de la productivité et de la performance des développements. Nouvelle approche d'ingénierie logicielle basée par l'OMG MDA (Model Driven Architecture). Prise en compte de l'utilisation systématique de modèles dans toutes les phases du cycle de vie des applications informatiques : de l'analyse et conception à la génération de code et au déploiement. Pour une meilleure productivité et une plus grande performance des développements, la logique multi-tier d'une application est modélisée et transformée de manière automatique en toute forme d'exécution, un mécanisme de transformation de modèles permettant ensuite de produire automatiquement les modèles et le code spécifiques à chaque plate-forme (J2EE, .NET, PHP, etc.). Mise en œuvre pratique de MDA illustrée par une étude de cas. À propos d'une description détaillée des standards sur lesquels repose MDA, tels que UML, MOF, OCL et XMI. L'ouvrage insiste sur les aspects pratiques de sa mise en œuvre. Il montre comment construire des transformations de modèles en Java à l'aide de l'API JMI et du framework EMF, et présente deux outils MDA du marché : IBM Rational Software Modeler et Objecteering MDA Modeler. L'ouvrage décrit enfin comment MDA prend en compte les plates-formes d'exécution en détaillant plus particulièrement les environnements J2EE, EJB et PHP. Tous ces aspects de l'approche MDA sont illustrés par une étude de cas d'une application de commerce électronique développée simultanément en J2EE et en PHP. Offert en téléchargement gratuit avec ce livre : IBM Rational Software Modeler 6.0, version d'évaluation limitée à 30 jours en français ; Objecteering MDA Modeler, version d'évaluation en anglais. Spécifications de l'OMG UML 2.0, OCL 2.0, MOF 2.0, XMI 2.0, MDA Guide, documents en anglais au format pdf. Configuration requise : Pentium IV 1 GHz, 512 Mo de RAM, Windows XP Professionnel SP1, SP2, Windows 2000 SP4 ou Windows Server 2003, Adobe Reader 6. Espace disque : 1,2 Go pour l'installation de IBM Rational Software Modeler et 300 Mo pour l'installation de Objecteering MDA Modeler.

**Livres hebdo**, 2005    **Livres de France**, 2005    **Programmer en Java** Claude Delannoy, 2020-10-08. De la programmation objet en Java au développement d'applications web. Dans cet ouvrage,

Claude Delannoy applique au langage Java la démarche pédagogique qui a fait le succès de ses livres sur le C et le C Il insiste tout particulièrement sur la bonne compréhension des concepts objet et sur l'acquisition de méthodes de programmation rigoureuses L'apprentissage du langage se fait en quatre étapes : apprentissage de la syntaxe de base, maîtrise de la programmation objet en Java, initiation à la programmation graphique et évolutionnelle avec la bibliothèque Swing, introduction au développement web avec les servlets Java et les JSR. L'ouvrage met l'accent sur les apports des versions 5.9 de Java Standard Edition qui ont fait voler la manière de programmer en Java : programmation générique, types numériques, annotations, streams et expressions lambda, outil JShell, Java Platform Module System, ex-projet Jigsaw, etc. Un chapitre est dédié aux Design Patterns en Java et cette 11<sup>e</sup> édition présente les nouveautés des versions 10.14 de Java SE : déclaration var, variante de l'instruction switch et expression switch, écriture simplifiée des blocs de texte Text Blocks, etc. Chaque notion nouvelle et chaque fonction du langage sont illustrées par des programmes complets dont le code source est disponible en téléchargement sur le site www.editions.eyrolles.com qui propose ce livre aux étudiants de licence et de master ainsi qu'aux élèves d'écoles d'ingénieurs tout programmeur ayant déjà une expérience de la programmation Python, PHP, C/C++ et souhaitant se initier au langage Java.

**Mastering AspectJ** Joseph D. Gradecki, Nicholas Lesiecki, 2003-03-20 Gives experienced Java developers the tools to exploit aspect oriented programming techniques using AspectJ, an open source Java extension. Delivers a code intensive real world tutorial on building applications with AspectJ. Covers the AspectJ compiler and browser as well as the IDE plug-ins and other tools that can be used with AspectJ. Masterfully ties together all material in the book so that readers will be able to build a complete working application. Companion Web site includes all sample code, the complete application and links to other relevant sites.

**Aspect-oriented Programming with AspectJ** Ivan Kiselev, 2003 In a November 2001 Java Pro magazine article noted Java pundit Daniel Savarese states "The days of Object Oriented Programming may be numbered. One day we may all be using Aspect Oriented Programming." While this may be hyperbole, the AOP brings certain needed improvements to the OOP. AspectJ is a Java based tool that allows developers to apply standard Java syntax to AOP principles much as C allowed C programmers to use C syntax in an object oriented manner. There are AspectJ add-ons available for Borland's JBuilder, Sun's Forte for Java and for the EMACS text editor. Aspect Oriented Programming with AspectJ introduces AOP and the AspectJ tool. The book also shows how by using existing Java programming knowledge the developer can use AOP in meaningful development work.

**Foundations of AOP for J2EE Development** Lionel Seinturier, Renaud Pawlak, 2006-11-10 Foundations of AOP for J2EE Development covers a relatively new programming paradigm, aspect oriented programming or AOP. Presented are the core concepts of AOP, AspectJ 5, JBoss AOP, Spring AOP and JAC. Specific features of these tools are compared. The book also explores the potential uses of AOP in everyday programming life such as design patterns implementation, program testing and application management. In the latter part of the book the authors show how AOP can ease the task of J2EE application development. J2EE is known for being a rich and somewhat complicated

framework    **Aspectj In Action: Practical Aspect-Oriented Programming** Ramnivas Laddad, AspectJ in Action is a practical guide to AOP and AspectJ. The reusable code examples that are provided will enable quick implementation of functionality in your system. The book is divided into three parts. The first part introduces AOP and AspectJ and will be helpful to developers wanting to learn or advance their knowledge of AspectJ. The second and third parts present examples of everyday situations in which you can use simple and easy AspectJ solutions to implement common system requirements such as logging, policy enforcement, resource pooling, business rules, thread safety, authentication and authorization, as well as transaction management.

**Eclipse Aspectj** Adrian Colyer, 2005 The definitive and only introduction to Aspect Oriented Programming AOP using Eclipse and ASpectJ

**La Programmation Orientée Aspect Interactionnelle pour la construction d'applications à préoccupations multiples** Renaud Pawlak, 2002 Dans cette thèse nous abordons le problème de conception des applications intégrant des préoccupations multiples et changeantes comme c'est le cas par exemple pour les applications à parties. Pour ce faire nous proposons une approche permettant d'exprimer les applications de façon modulaire. L'originalité de notre approche tient en l'utilisation des idées majeures de la Programmation Orientée Aspect POA tout en se plaçant dans un point de vue fortement lié aux interactions entre les objets. Nous utilisons le mécanisme de raffinement des interactions de manière à abstraire la notion d'interaction seule. Puis nous couplons cette approche à la notion de groupe d'objets interopérants afin d'abstraire des ensembles d'interactions. Nous arrivons ainsi à poser les bases de la POA Interactionnelle POAI que nous formalisons dans un langage d'agrégation du lambda calcul. Un autre point essentiel de ce travail consiste à étudier les problèmes liés à la composition des aspects. Nous proposons une étude sémantique liée à la superposition de plusieurs aspects. Nous proposons une étude sémantique liée à la superposition de plusieurs aspects. Cette étude nous permet de finir la notion de comptabilité sémantique de superposition permettant de calculer la validité d'un ensemble d'aspects par rapport à un effet global voulu par le concepteur de l'application. Nous démontrons aussi des règles pragmatiques de composition.

Finalement une grande partie de cette thèse est dédiée aux applications pratiques de notre étude théorique. Nous avons implanté une couche middleware orientée aspect appelée Java Aspect Components JAC qui permet au programmeur d'atteindre une excellente modularité des programmes et supporte l'adaptabilité et la répartition des applications.

**AspectJ Cookbook** Russ Miles, 2004-12-20 When Object Oriented programming OO first appeared it was a revelation. OO gave developers the ability to create software that was more flexible and robust but as time went on and applications became more sophisticated too certain areas of traditional OO architectures were found wanting. Aspect oriented programming AOP addresses those issues by extending the OO approach even further. Many developers are interested in AOP especially in AspectJ the open source extension of the Java programming language that explicitly supports the AOP approach. Yet although AspectJ is included with Eclipse the increasingly popular open source IDE for Java finding a practical and non theoretical way to learn this language and other AOP tools and techniques has been a real problem. Until now The AspectJ Cookbook offers a hands on solution in

fact several with a wide variety of code recipes for solving day to day design and coding problems using AOP's unique approach. AOP allows the global properties of a program to determine how it's compiled into an executable program. Before AOP important program design decisions were difficult to capture in actual code. Instead the implementation of those design decisions known as aspects were scattered throughout resulting in tangled code that was hard to develop and maintain. AOP has been compared to the manufacturing of cloth in which threads are automatically interwoven. Without AOP programmers must stitch the threads by hand. The AspectJ Cookbook shows readers why and how common Java development problems can be solved by using AOP techniques. With our popular problem solution discussion format the book presents real world examples to demonstrate that AOP is more than just a concept it's a development process that will benefit users in an immediate and visible manner. If you're interested in how AOP is changing the way software is developed and how you can use AspectJ to make code more modular easier to develop maintain evolve and deploy this is the book that really delivers.

**Aspect Oriented Programming**, 2003 Over the lifetime of the project we developed a general purpose aspect oriented programming AOP extension to Java called AspectJ cultivated a user community for AspectJ and showed that the technology was useful for a wide range of software development problems. AspectJ is now the de facto standard AOP language not just for Java but in some sense for languages beyond Java. This significant milestone came about through major scientific engineering and community building accomplishments throughout the life of the project.

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