

Mehmet Aksit Satoshi Matsuoka (Eds.)

ECOOP'97 – Object-Oriented Programming

**11th European Conference
Jyväskylä, Finland, June 1997
Proceedings**



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Ecoop 97 Objectoriented Programming

Tony Clark, Jos Warmer



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Ecoop '97 - Object-Oriented Programming Mehmed Aksit,Satoshi Matsuoka,2014-01-15 *Object-Oriented Technology: ECOOP '97 Workshop Reader* Jan Bosch,Stuart Mitchell,2003-07-30 This book constitutes the joint refereed post conference proceedings of 12 workshops held in conjunction with the 11th European Conference on Object Oriented Programming ECOOP 97 in Jyväskylä Finland in June 1997 The volume presents close to 100 revised selected contributions including surveys by the respective workshop organizers The wealth of up to date information provided spans the whole spectrum of Object Technologies from theoretical and foundational issues to applications in a variety of domains ECOOP '97 - Object-Oriented Programming Mehmed Aksit,Satoshi Matsuoka,1997-05-28 When do the Lebesgue Bochner function spaces contain a copy or a complemented copy of any of the classical sequence spaces This problem and the analogous one for vector valued continuous function spaces have attracted quite a lot of research activity in the last twenty five years The aim of this monograph is to give a detailed exposition of the answers to these questions providing a unified and self contained treatment It presents a great number of results methods and techniques which are useful for any researcher in Banach spaces and in general in Functional Analysis This book is written at a graduate student level assuming the basics in Banach space theory **ECOOP '97 - Object-oriented Programming** Mehmet Aksit,Satoshi Matsuoka,1997 *Object-oriented Technology* Jan Bosch,Stuart Mitchell,1998 This book constitutes the joint refereed post conference proceedings of 12 workshops held in conjunction with the 11th European Conference on Object Oriented Programming ECOOP 97 in Jyväskylä Finland in June 1997 The volume presents close to 100 revised selected contributions including surveys by the respective workshop organizers The wealth of up to date information provided spans the whole spectrum of Object Technologies from theoretical and foundational issues to applications in a variety of domains The volume presents close to 100 revised selected contributions including surveys by the respective workshop organizers The wealth of up to date information provided spans the whole spectrum of Object Technologies from theoretical and foundational issues to applications in a variety of domains *Object-Oriented Technology. ECOOP '98 Workshop Reader* Serge Demeyer,Jan Bosch,1998-12-11 At the time of writing mid October 1998 we can look back at what has been a very successful ECOOP 98 Despite the time of the year in the middle of what is traditionally regarded as a holiday period ECOOP 98 was a record breaker in terms of number of participants Over 700 persons found their way to the campus of the Brussels Free University to participate in a wide range of activities This 3rd ECOOP workshop reader reports on many of these activities It contains a careful selection of the input and a cautious summary of the outcome for the numerous discussions that happened during the workshops demonstrations and posters As such this book serves as an excellent snapshot of the state of the art in the field of object oriented programming About the diversity of the submissions A workshop reader is by its very nature quite diverse in the topics covered as well as in the form of its contributions This reader is not an exception to this rule as editors we have given the respective organizers much

freedom in their choice of presentation because we feel form follows content This explains the diversity in the types of reports as well as in their lay out

Variational Object-Oriented Programming Beyond Classes and Inheritance Mira Mezini, 2013-06-29 Purpose of the Book This book presents an approach to improve the standard object oriented programming model The proposal is aimed at supporting a larger range of incremental behavior variations and thus promises to be more effective in mastering the complexity of today's software The ability of dealing with the evolutionary nature of software is one of main merits of object oriented data abstraction and inheritance Object orientation allows to organize software in a structured way by separating the description of different kinds of an abstract data type into different classes and loosely connecting them by the inheritance hierarchy Due to this separation the software becomes free of conditional logics previously needed for distinguishing between different kinds of abstractions and can thus more easily be incrementally extended to support new kinds of abstractions In other words classes and inheritance are means to properly model variations of behavior related to the existence of different kinds of an abstract data type The support for extensibility and reuse with respect to such kind specific behavior variations is among the main reasons for the increasing popularity of object oriented programming in the last two decades However this popularity does not prevent us from questioning the effectiveness of current object oriented techniques in supporting incremental variations In fact this popularity makes a critical investigation of the variations that can actually be performed incrementally even more important

ECOOP'97--object-oriented Programming, 1997 **Software Reuse: Advances in Software Reusability** William B. Frakes, 2004-02-02 This book constitutes the refereed proceedings of the 6th International Conference on Software Reuse ICSR 6 held in Vienna Austria in June 2000 The 26 revised full papers presented were carefully reviewed and selected from numerous submissions The book is divided into topical sections on generative reuse and formal description languages object oriented methods product line architectures requirements reuse and business modeling components and libraries and design patterns

Generative and Transformational Techniques in Software Engineering Ralf Lämmel, João Saraiva, Joost Visser, 2006-09-29 This tutorial book presents an augmented selection of material presented at the International Summer School on Generative and Transformational Techniques in Software Engineering GTTSE 2005 The book comprises 7 tutorial lectures presented together with 8 technology presentations and 6 contributions to the participants workshop The tutorials combine foundations methods examples and tool support Subjects covered include feature oriented programming and the AHEAD tool suite program transformation with reflection and aspect oriented programming and more

Modular Specification and Verification of Object-Oriented Programs Peter Müller, 2003-07-31 Software systems play an increasingly important role in modern societies Smart cards for personal identification e banking software controlled medical tools airbags in cars and autopilots for aircraft control are only some examples that illustrate how everyday life depends on the good behavior of software Consequently techniques and methods for the development of high quality dependable software

systems are a central research topic in computer science. A fundamental approach to this area is to use formal specification and verification. Specification languages allow one to describe the crucial properties of software systems in an abstract, mathematically precise and implementation independent way. By formal verification one can then prove that an implementation really has the desired specified properties. Although this formal methods approach has been a research topic for more than 30 years, its practical success is still restricted to domains in which development costs are of minor importance. Two aspects are crucial to widen the application area of formal methods. Formal specification techniques have to be smoothly integrated into the software and program development process. The techniques have to be applicable to reusable software components. This way the quality gain can be exploited for more than one system, thereby justifying the higher development costs. Starting from these considerations, Peter Muller has developed new techniques for the formal specification and verification of object-oriented software. The specification techniques are declarative and implementation independent. They can be used for object-oriented design and programming.

Object Modeling with the OCL Tony Clark, Jos Warmer, 2003-07-31 As part of the UML standard, OCL has been adopted by both professionals in industry and by academic researchers and is one of the most widely used languages for expressing object-oriented system properties. This book contains key contributions to the development of OCL. Most papers are developments of work reported at different conferences and workshops. This unique compilation addresses many important issues faced by advanced professionals and researchers in object modeling, like e.g. real-time constraints, type checking and constraint modeling.

Software Engineering - ESEC/FSE '99 Oskar Nierstrasz, Michel Lemoine, 1999-08-30 For the second time the European Software Engineering Conference is being held jointly with the ACM SIGSOFT Symposium on the Foundations of Software Engineering FSE. Although the two conferences have different origins and traditions, there is a significant overlap in intent and subject matter. Holding the conferences jointly when they are held in Europe helps to make these thematic links more explicit and encourages researchers and practitioners to attend and submit papers to both events. The ESEC proceedings have traditionally been published by Springer Verlag, as they are again this year, but by special arrangement the proceedings will be distributed to members of ACM SIGSOFT as is usually the case for FSE. ESEC/FSE is being held as a single event rather than as a pair of colocated events. Submitted papers were therefore evaluated by a single program committee. ESEC/FSE represents a broad range of software engineering topics in mainly two continents and consequently the program committee members were selected to represent a spectrum of both traditional and emerging software engineering topics. A total of 141 papers were submitted from around the globe. Of these, nearly half were classified as research papers, quarter as experience papers, and the rest as both research and experience papers. Twenty-nine papers from five continents were selected for presentation and inclusion in the proceedings. Due to the large number of industrial experience reports submitted, we have also introduced this year two sessions on short case study presentations.

Advanced Topics in Exception Handling Techniques Christophe

Dony, Jorgen Lindskov Knudsen, Alexander Romanovsky, Anand Tripathi, 2006-10-04 This book inspired by two ECOOP workshops on exception handling is composed of five parts the first four address exception handling and related topics in the context of programming languages concurrency and operating systems pervasive computing systems and requirements and specifications The last part offers case studies experimentation and qualitative comparisons The 16 coherently written chapters by leading researchers review a wide range of issues in exception handling

Generative and Component-Based Software Engineering Krzysztof Czarnecki, Ulrich W. Eisenecker, 2003-06-26 In the past two years the Smalltalk and Java in Industry and Education Conference STJA featured a special track on generative programming which was organized by the working group Generative and Component Based Software Engineering of the Gesellschaft für Informatik FG 2.1.9 Object Oriented Software Engineering This track covered a wide range of related topics from domain analysis software system family engineering and software product lines to extendible compilers and active libraries The talks and keynotes directed towards this new software engineering paradigm received much attention and interest from the STJA audience Hence the STJA organizers suggested enlarging this track making it more visible and open to wider international participation This is how the GCSE symposium was born The first GCSE symposium attracted 39 submissions from all over the world This impressive number demonstrates the international interest in generative programming and related fields After a careful review by the program committee fifteen papers were selected for presentation We are very grateful to the members of the program committee all of them renowned experts for their dedication in preparing thorough reviews of the submissions Special thanks go to Elke Pulvermüller and Andreas Speck who proposed and organized a special conference event the Young Researchers Workshop YRW This workshop provided a unique opportunity for young scientists and PhD

Active Networks Hiroshi Yasuda, 2000 This book constitutes the refereed proceedings of the Second International Working Conference on Active Networks IWAN 2000 held in Tokyo Japan in October 2000 The 30 revised full papers presented were carefully reviewed and selected from numerous submissions The book offers topical sections on architecture multicast quality of service QoS applications management service architecture and mobile IP

Software Composition Thomas Gschwind, Uwe Assmann, Oscar Nierstrasz, 2005-09-19 Component based software development is the next step after object oriented programming that promises to reduce complexity and improve reusability These advantages have also been identified by the industry and consequently over the past years a large number of component based techniques and processes have been adopted in many of these organizations A visible result of this is the number of component models that have been developed and standardized These models define how individual software components interact with each other and simplify the design process of software systems by allowing developers to choose from previously existing components The development of component models is a first step in the right direction but there are many challenges that cannot be solved by the development of a new component model alone Such challenges are the adaptation of components and their

development and verification Software Composition is the premiere workshop to advance the research in component based software engineering and its related fields SC 2005 was the fourth workshop in this series As in previous years SC 2005 was organized as an event co located with the ETAPS conference This year's program consisted of a keynote on the revival of dynamic languages given by Prof Oscar Nierstrasz and 13 technical paper presentations 9 full and 4 short papers The technical papers were carefully selected from a total of 41 submitted papers Each paper was thoroughly peer reviewed by at least three members of the program committee and consensus on acceptance was achieved by means of an electronic PC discussion This LNCS volume contains the revised versions of the papers presented at SC 2005

Secure Systems Development with UML Jan Jürjens, 2005 The extension UMLsec of the Unified Modeling Language for secure systems development is presented in this text The first part is accessible to anyone with a basic background on object oriented systems The second part covers the mathematical tools needed to use the UMLsec approach to verify UML specifications against security requirements

Generative and Component-Based Software Engineering Jan Bosch, 2003-06-30 The size complexity and integration level of software systems is increasing constantly Companies in all domains identify that software defines the competitive edge of their products These developments require us to constantly search for new approaches to increase the productivity and quality of our software development and to decrease the cost of software maintenance Generative and component based technologies hold considerable promise with respect to achieving these goals GCSE 2001 constituted another important step forward and provided a platform for academic and industrial researchers to exchange ideas These proceedings represent the third conference on generative and component based software engineering The conference originated as a special track on generative programming from the Smalltalk and Java in Industry and Education Conference STJA organized by the working group Generative and Component Based Software Engineering of the Gesellschaft für Informatik FG 2.1.9 Object Oriented Software Engineering However the conference has evolved substantially since then with its own independent stature invited speakers and most importantly a stable and growing community This year's conference attracted 43 submissions from all over the world indicating the broad international interest in the research field Based on careful review by the program committee 14 papers were selected for presentation I would like to thank the members of the program committee all renowned experts for their dedication in preparing thorough reviews of the submissions

Unifying the Software Process Spectrum Barry Boehm, 2005 This book constitutes the thoroughly refereed post proceedings of the International Software Process Workshop SPW 2005 held in Beijing China in May 2005 The 30 papers presented here together with 11 keynote addresses are organized in topical sections on process content process tools and metrics process management process representation and analysis as well as experience reports

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