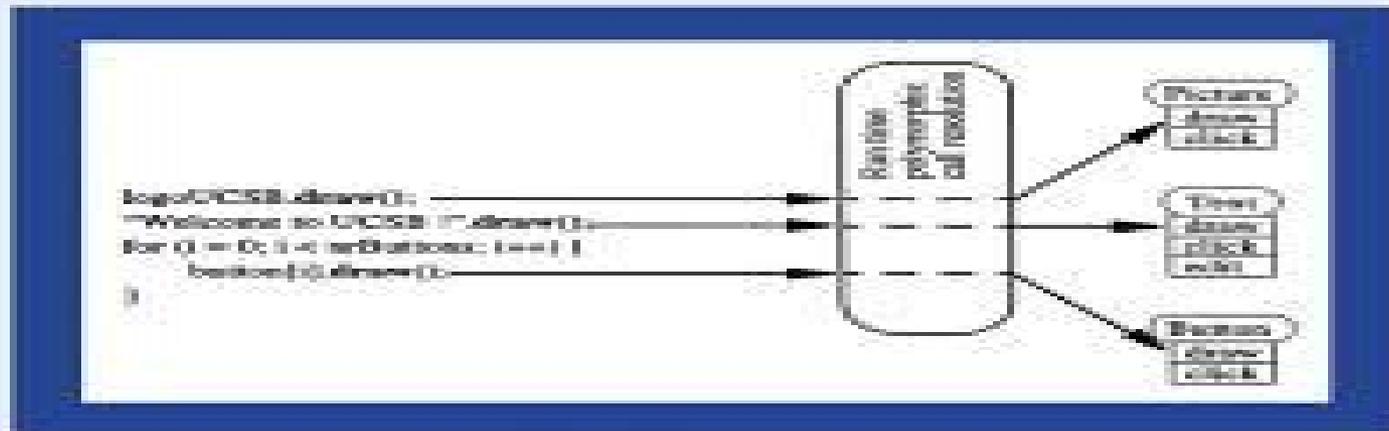


EFFICIENT POLYMORPHIC CALLS

by
Karel Driesen

foreword by
Urs Hölzle



Efficient Polymorphic Calls

Association for Computing Machinery

A red circular graphic with a gradient, appearing as a semi-circle on the right side of the slide, partially overlapping the light blue bar.

Efficient Polymorphic Calls:

Efficient Polymorphic Calls Karel Driesen, 2012-12-06 The implementation of object oriented languages has been an active topic of research since the 1960s when the first Simula compiler was written The topic received renewed interest in the early 1980s with the growing popularity of object oriented programming languages such as C and Smalltalk and got another boost with the advent of Java Polymorphic calls are at the heart of object oriented languages and even the first implementation of Simula 67 contained their classic implementation via virtual function tables In fact virtual function tables predate even Simula for example Ivan Sutherland's Sketchpad drawing editor employed very similar structures in 1960 Similarly during the 1970s and 1980s the implementers of Smalltalk systems spent considerable efforts on implementing polymorphic calls for this dynamically typed language where virtual function tables could not be used Given this long history of research into the implementation of polymorphic calls and the relatively mature standing it achieved over time why one might ask should there be a new book in this field The answer is simple Both software and hardware have changed considerably in recent years to the point where many assumptions underlying the original work in this field are no longer true In particular virtual function tables are no longer sufficient to implement polymorphic calls even for statically typed languages for example Java's interface calls cannot be implemented this way Furthermore today's processors are deeply pipelined and can execute instructions out of order making it difficult to predict the execution time of even simple code sequences

Software and Hardware Techniques for Efficient Polymorphic Calls Karel Driesen, 1999 *Compiler Design* Dr. Divvela Srinivasa Rao, Dr. Prakash Bethapudi, V. Kiran Kumar, Dr. Gopikha Sundaramoorthy, 2025-11-18 This course covers the principles and techniques involved in the design and construction of compilers It introduces the structure of a compiler and its key phases including lexical analysis syntax analysis semantic analysis intermediate code generation code optimization and target code generation The course also explores symbol tables error handling parsing techniques and compiler tools providing students with a strong foundation in programming language processing and system level software development

ECOOP '91 European Conference on Object-Oriented Programming Pierre America, 1991-07-03 ECOOP 91 is the fifth annual European Conference on Object Oriented Programming From their beginning the ECOOP conferences have been very successful as a forum of high scientific quality where the newest developments connected to object oriented programming and related areas could be presented and discussed Over the last few years object oriented technology has gained widespread use and considerable popularity In parallel with this the field has matured scientifically but there is still a lot of room for new ideas and for hot debates over fundamental issues as these proceedings show The 22 papers in this volume were selected by the programme committee from 129 submissions Important issues discussed in the contributions are language design specification databases concurrency types and software development

Reliable Software Technology - Ada-Europe 2005 Tullio Vardanega, Andrew J. Wellings, 2005-06-08 This book constitutes the refereed

proceedings of the 10th International Conference on Reliable Software Technologies Ada Europe 2005 held in York UK in June 2005 The 21 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on applications design and scheduling formal methods Ada and education certification and verification distributed systems language aspects and Ravenscar technology *Dissertation Abstracts International* ,2008

OOPSLA 2002 ,2002 Proceedings of the Java Virtual Machine Research and Technology Symposium ,2002 ACM SIGPLAN Notices ,2006-07 **Proceedings of the Sixth ACM SIGPLAN International Conference on Functional**

Programming (ICFP '01), Florence, Italy, September 3-5, 2001 ,2001 **Conference Record of the Nineteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages** Association for Computing Machinery,1992 **ACM Transactions on Programming Languages and Systems** Association for Computing Machinery,1999 *Book Review Index* ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index

Programming Languages Implementation and Logic Programming ,1991 **OOPSLA '97 : Object Technology, Naturally** ,1997 *EURO-PAR '...* ,1999 **Parallel Computing** Wouter Joosen,Elie Milgrom,1992 ECOOP... ,2003

Proceedings of the Twenty-eighth Annual ACM Symposium on the Theory of Computing ,1996 Java Harvey M. Deitel,Paul J. Deitel,1999 Completely revised and updated to cover the new features in the 1 2 release of Java this book is a comprehensive look at learning how to program in Java The book covers all facets of the Java language including object orientation multithreading exception handling the new event model the graphics capabilities of the new Abstract Windows Toolkit and the new APIs

Reviewing **Efficient Polymorphic Calls**: 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 truly astonishing. Within the pages of "**Efficient Polymorphic Calls**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve 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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