

Lecture Notes in Computer Science

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Reflection and Software Engineering



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Reflection And Software Engineering

Frank Maurer, Don Wells



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Engineering Walter Cazzola,Robert J. Stroud,Francesco Tisato,2003-05-15 This book presents the state of the art of research and development of computational reflection in the context of software engineering Reflection has attracted considerable attention recently in software engineering particularly from object oriented researchers and professionals The properties of transparency separation of concerns and extensibility supported by reflection have largely been accepted as useful in software development and design reflective features have been included in successful software development technologies such as the Java language The book offers revised versions of papers presented first at a workshop held during OOPSLA 99 together with especially solicited contributions The papers are organized in topical sections on reflective and software engineering foundations reflective software adaptability and evolution reflective middleware engineering Java based reflective languages and dynamic reconfiguration through reflection **Reflections on Management** Watts S.

Humphrey,William R. Thomas,2010 Whether you are in a startup or Fortune 500 company are a developer development manager or CEO use agile lean waterfall or other methodology if software and quality are important to you you should read and pay attention to Watts s reflections Bill Ihrie Former SVP CTO Intuit You will enjoy this collection for its down to earth accessible prose its pragmatism optimism and above all Watts s demonstration that software quality improvement is vitally important and very achievable Aidan Waine Information Solutions General Manager Microsoft Entertainment Devices Division Watts has developed a real weapon for beating your competition a reliable repeatable way to create software that has excellent quality and reduces the time to deliver it to your customer and lowers the cost of the entire software life cycle and improves employee morale All at the same time Michael J Cullen Vice President Quality Oracle Communications Global Business Unit A Lifetime of Invaluable Management Insights from Legendary Software Quality Guru Watts S Humphrey In 1986 Watts S Humphrey made an outrageous commitment a promise to transform software development As the pioneering innovator behind SEI s Capability Maturity Model CMM Personal Software Process PSP and Team Software Process TSP

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Parsons,Kathryn MacCallum,2018-10-24 This book explores the application of agile and lean techniques originally from the field of software development and manufacturing to various aspects of education It covers a broad range of topics including applying agile teaching and learning techniques in the classroom incorporating lean thinking in educational workflows and using team based approaches to student centred activities based on agile principles and processes Demonstrating how agile and lean ideas can concretely be applied to education the book offers practical guidance on how to apply these ideas in the classroom or lecture hall as well as new concepts that could spark further research and development *Philosophy and Engineering: Reflections on Practice, Principles and Process* Diane P Michelfelder,Natasha McCarthy,David E.

Goldberg,2014-01-13 Building on the breakthrough text *Philosophy and Engineering An Emerging Agenda* this book offers 30 chapters covering conceptual and substantive developments in the philosophy of engineering along with a series of critical reflections by engineering practitioners The volume demonstrates how reflective engineering can contribute to a better understanding of engineering identity and explores how integrating engineering and philosophy could lead to innovation in engineering methods design and education The volume is divided into reflections on practice principles and process each of which challenges prevalent assumptions and commitments within engineering and philosophy The volume explores the ontological and epistemological dimensions of engineering and exposes the falsity of the commonly held belief that the field is simply the application of science knowledge to problem solving Above all the perspectives collected here demonstrate the value of a constructive dialogue between engineering and philosophy and show how collaboration between the disciplines casts light on longstanding problems from both sides The chapters in this volume are from a diverse and international body of authors including philosophers and engineers and represent a highly select group of papers originally presented in three different conferences These are the 2008 Workshop on Philosophy and Engineering WPE 2008 held at the Royal Academy of Engineering the 2009 meeting of the Society for Philosophy and Technology SPT 2009 at the University of Twente in the Netherlands and the Forum on Philosophy Engineering and Technology fPET 2010 held in Golden Colorado at the Colorado School of Mines Engineering Distributed Objects Wolfgang Emmerich,Stefan Tai,2003-06-29 This book constitutes the

thoroughly refereed post proceedings of the Second International Workshop on Engineering Distributed Objects EDO 2000 held in November 2000 in Davis California USA The 15 revised full papers presented together with session surveys were carefully reviewed and selected from 30 submissions The book presents topical sections on middleware selection resource management architectural reasoning distributed communication advanced transactions and service integration

Reflections on the Teaching of Programming Jens Bennedsen, Michael E. Caspersen, Michael Kölling, 2008-07-29 The authors are all members of the Scandinavian Pedagogy of Programming Network SPoP and bring together a diverse body of experiences from the Nordic countries The 14 chapters of the book have been carefully written and edited to present 4 coherent units on issues in introductory programming courses object oriented programming teaching software engineering issues and assessment Each of these individual parts has its own detailed introduction

Object-Oriented Technology: ECOOP 2000 Workshop Reader Jacques Malenfant, Sabine Moisan, Ana Moreira, 2003-06-26 This book documents the satellite events run around the 14th European Conference on Object Oriented Programming ECOOP 2000 in Cannes and Sophia Antipolis in June 2000 The book presents 18 high quality value adding workshop reports one panel transcription and 15 posters All in all the book offers a comprehensive and thought provoking snapshot of the current research in object orientation The wealth of information provided spans the whole range of object technology ranging from theoretical and foundational issues to applications in various domains

Reflections on Management Watts S. Humphrey, William R. Thomas, 2010-03-29 A Lifetime of Invaluable Management Insights from Legendary Software Quality Guru Watts S Humphrey In 1986 Watts S Humphrey made an outrageous commitment a promise to transform software development As the pioneering innovator behind SEI's Capability Maturity Model CMM Personal Software Process PSP and Team Software Process TSP Humphrey has more than met that promise But his contributions go beyond methodology For decades his deeply personal writings on project management have been admired by software engineers worldwide *Reflections on Management* brings together Humphrey's best and most influential essays and articles sharing insights that will be indispensable for anyone who must achieve superior results in software or any other endeavor Collected here for the first time these works offer compelling insights into everything from planning day to day work to improving quality encouraging teamwork to becoming a truly great leader All of these writings share a powerful vision grounded by a life in software that has extended across nearly six decades The vision is this To succeed professionals must effectively manage for more than plans schedules and code they must manage teams bosses and above all themselves

Mobile Information Systems Barbara Pernici, 2006-09-02 This book presents a framework for mobile information systems focusing on quality of service and adaptability at all architectural levels These levels range from adaptive applications to e services middleware and infrastructural elements as developed in the Multichannel Adaptive Information Systems MAIS project The design models methods and tools developed in the project allow the realization of adaptive mobile information systems in a variety of different architectures

Object-Oriented

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Meta-level Architectures and Reflection Akinori Yonezawa,Satoshi Matsuoka,2001-09-12 This book constitutes the refereed proceedings of the Third International Conference on Metalevel Architectures and Separation of Crosscutting Concerns REFLECTION 2001 held in Kyoto Japan in September 2001 The revised eleven long papers seven short papers and eight posters presented were carefully reviewed and selected from 44 submissions The book offers topical sections on reflection and SOC in Java software adaptation using reflection and SOC techniques reflective middleware for distributed mobile applications testing and verification foundations of reflection and SOC and software methodologies for SOC

ECOOP 2002 - Object-Oriented Programming Boris Magnusson,2003-08-02 This book constitutes the refereed proceedings of the 16th European Conference on Object Oriented Programming ECOOP 2002 held in Malaga Spain in June 2002 The 24 revised full papers presented together with one full invited paper were carefully reviewed and selected from 96 submissions The book offers topical sections on aspect oriented software development Java virtual machines distributed systems patterns and architectures languages optimization theory and formal techniques and miscellaneous

Approaches to Work-Based Learning in Higher Education Matthew Barr,2024-12-16 Approaches to Work Based Learning in Higher Education provides a comprehensive introduction to the delivery of university level work based learning WBL for educators and policymakers The contributing authors draw from their wealth of experience of developing apprenticeships placement programmes and other work based learning opportunities advising on best practice when delivering learning in partnership with industry Supported by a unique balance of practical and theoretical insight including international perspectives on how common challenges may be addressed this essential volume explores the following key themes Pedagogies this section outlines established best practice in delivery of WBL for higher education and offers suggestions for how readers may continue to develop and improve their provision Projects this section covers a range of approaches to work based learning within higher education and explores examples of this in practice including live briefs work placements and industrial project based learning Apprenticeships this section focuses specifically on work based degree programmes covering their design delivery implementation and assessment A must read for anyone working within higher education policy or practice this book provides readers with the tools to successfully navigate work based learning as well as strategies for ensuring and enhancing the quality of the learning experience

Reflections on the History of Computing Arthur Tatnall, 2012-11-28 This book is a collection of refereed invited papers on the history of computing from the 1940s to the 1990s with one paper going back to look at Italian calculating machines from the first century to the 20th century The 22 papers cover a wide range of computing related topics such as specific early computer systems their construction their use and their users software programming and operating systems people involved in the theory design and use of these computers computer education and conservation of computing technology Many of the authors were actually involved in the events they describe and share their specific reflections on the history of computing

Critical Reflections on Information Systems: A Systemic Approach Cano, Jeimy J., 2002-07-01 While implementing IS and IT in support of their business strategies companies are looking for ways to bridge the gap between their competitive position and technological investment including ways to use this investment to the advantage of the organization This book faces this challenge by offering ways to incorporate IT into such organizations while also successfully giving the company an edge over its competitors

Extreme Programming and Agile Methods - XP/Agile Universe 2003 Frank Maurer, Don Wells, 2011-04-08 XP/Agile Universe 2003 is the third conference in a series running in North America and attracting participants from all over the world who are interested in the research development and application of agile software processes Agile approaches value people and interaction over processes and tools moving software engineering from the process oriented software development approaches of the 1990s towards people oriented approaches that we are starting to see more and more in this decade Agile approaches stress a holistic view of software developers as being involved in analysis design implementation and testing activities while more traditional Tayloristic approaches separate these tasks and assign them to different resources Tayloristic approaches create knowledge sharing problems as information gathered by one person needs to be handed over usually in the form of documentation to the next person in the chain Agile approaches reduce the number of hand offs and thus decrease the amount of required documentation for knowledge sharing While deemed a novelty only a few years ago agile methods are now being established in the software industry and are being applied in more and more application domains While agile approaches move into the mainstream of software organizations we are only now beginning to understand their benefits areas of applicability and also their dangers This year's conference will increase this understanding and provide a better base for industry practitioners as they assess the effectiveness of agile methods in their environment

From the Web to the Grid and Beyond René Brun, Federico Carminati, Giuliana Galli Carminati, 2012-01-10 Born after World War II large scale experimental high energy physics HEP has found itself limited ever since by available accelerator detector and computing technologies Accordingly HEP has made significant contributions to the development of these fields more often than not driving their innovations The invention of the World Wide Web at CERN is merely the best known example out of many This book is the first comprehensive account to trace the history of this pioneering spirit in the field of computing technologies It covers everything up to and including the present day handling of the huge demands

imposed upon grid and distributed computing by full scale LHC operations operations which have for years involved many thousands of collaborating members worldwide and accordingly provide the original and natural testbed for grid computing concepts This book takes the reader on a guided tour encompassing all relevant topics including programming languages software engineering large databases the Web and grid and cloud computing The important issue of intellectual property regulations for distributed software engineering and computing is also addressed Aptly the book closes with a visionary chapter of what may lie ahead Approachable and requiring only basic understanding of physics and computer sciences this book is intended for both education and research

Formal Methods for Components and Objects Frank S. de Boer, Marcello M. Bonsangue, Susanne Graf, Willem-Paul de Roever, 2008-01-30 This book presents 12 revised lectures given by top researchers at the 5th International Symposium on Formal Methods for Components and Objects FMCO 2006 held in Amsterdam Netherlands in November 2006 It provides a unique combination of ideas on software engineering and formal methods that reflect the current interest in the application or development of formal methods for large scale software systems such as component based systems and object systems

Open Source for Knowledge and Learning Management: Strategies Beyond Tools Lytras, Miltiadis D., Naeve, Ambjørn, 2006-12-31 This book presents learning and knowledge management from a point of view where the basic tools and applications are provided by open source technologies It explains an intense orientation to the critical issues of the open source paradigm open source tools applications social networks and knowledge sharing in open source communities Provided by publisher

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