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SOFTWARE ARCHITECTURE

PERSPECTIVES ON AN EMERGING DISCIPLINE

**MARY SHAW
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Software Architecture Perspectives On An Emerging Discipline

Marco Bernardo, Paola Inverardi



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Software Architecture: Perspectives On An Emerging Discipline Shaw & Garlan, 2000 Software Architecture Mary Shaw, David Garlan, 1996 Introduction Architectural styles Case studies Shared information systems Architectural design guidance Formal models and specifications Linguistics issues Tools for architectural design Education of software architects

Software Architecture Patrick Donohoe, 1999-02-28 Software architecture is a primary factor in the creation and evolution of virtually all products involving software It is a topic of major interest in the research community where pronusmg formalisms processes and technologies are under development Architecture is also of major interest in industry because it is recognized as a significant leverage point for manipulating such basic development factors as cost quality and interval Its importance is attested to by the fact that there are several international workshop series as well as major conference sessions devoted to it The First Working IFIP Conference on Software Architecture WICSAI provided a focused and dedicated forum for the international software architecture community to unify and coordinate its effort to advance the state of practice and research WICSA 1 was organized to facilitate information exchange between practising software architects and software architecture researchers The conference was held in San Antonio Texas USA from February 22nd to February 24th 1999 it was the initiating event for the new IFIP TC 2 Working Group on Software Architecture This proceedings document contains the papers accepted for the conference The papers in this volume comprise both experience reports and technical papers The proceedings reflect the structure of the conference and are divided into six sections corresponding to the working groups established for the conference **Software Architecture** Flavio Oquendo, Brian Warboys, Ron Morrison, 2004-05-11 This book constitutes the refereed proceedings of the First European Workshop on

Software Architecture EWSA 2004 held in St Andrews Scotland UK in May 2004 in conjunction with ICSE 2004 The 9 revised full research papers 4 revised full experience papers and 6 revised position papers presented together with 5 invited presentations on ongoing European projects on software architectures were carefully reviewed and selected from 48 submissions All current aspects of software architectures are addressed ranging from foundational and methodological issues to application issues of practical relevance Software Architectures Leonor Barroca, Jon Hall, Patrick A. V. Hall, 2000 This book provides a unique overview of different approaches to developing software that is flexible adaptable and easy to

maintain and reuse It covers the most recent advances in software architecture research In addition it provides the reader with scalable solutions for engineering and reengineering business processes including architectural components for business applications framework design for Internet distributed business applications and architectural standards for enterprise systems **Formal Methods for Software Architectures** Marco Bernardo, Paola Inverardi, 2003-11-03 In the

past ten years or so software architecture has emerged as a central notion in the development of complex software systems Software architecture is now accepted in the software engineering research and development community as a manageable

and meaningful abstraction of the system under development and is applied throughout the software development life cycle from requirements analysis and validation to design and down to code and execution level This book presents the tutorial lectures given by leading authorities at the Third International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2003 held in Bertinoro Italy in September 2003 The book is ideally suited for advanced courses on software architecture as well as for ongoing education of software engineers using formal methods in their day to day professional work Software Architecture: A Case Based Approach Varma, Vasudeva,2009 Software Architecture A Case Based Approach discusses the discipline using real world case studies and posing pertinent questions that arouse objective thinking It encourages the reader to think about the subject in the context of problems that s

Economics-Driven Software Architecture Ivan Mistrik,Rami Bahsoon,Rick Kazman,Yuanyuan Zhang,2014-06-03 Economics driven Software Architecture presents a guide for engineers and architects who need to understand the economic impact of architecture design decisions the long term and strategic viability cost effectiveness and sustainability of applications and systems Economics driven software development can increase quality productivity and profitability but comprehensive knowledge is needed to understand the architectural challenges involved in dealing with the development of large architecturally challenging systems in an economic way This book covers how to apply economic considerations during the software architecting activities of a project Architecture centric approaches to development and systematic evolution where managing complexity cost reduction risk mitigation evolvability strategic planning and long term value creation are among the major drivers for adopting such approaches It assists the objective assessment of the lifetime costs and benefits of evolving systems and the identification of legacy situations where architecture or a component is indispensable but can no longer be evolved to meet changing needs at economic cost Such consideration will form the scientific foundation for reasoning about the economics of nonfunctional requirements in the context of architectures and architecting Familiarizes readers with essential considerations in economic informed and value driven software design and analysis Introduces techniques for making value based software architecting decisions Provides readers a better understanding of the methods of economics driven architecting Development and Evolution of Software Architectures for Product Families Frank van der Linden,2003-08-06 This book originates from a workshop organised by ESPRIT project 20 477 ARES in Las Palmas de Gran Canaria Spain February 1998 ARES is an acronym for Architectural Reasoning for Embedded Systems Within this project we investigate techniques to deal with problems of software architecture of families of embedded systems It is the second workshop organised by this project Its predecessor was held in Las Navas de Marques Spain November 1996 The proceedings of the first workshop are only available in electronic format at <http://www.dit.upm.es/ares> The second workshop succeeded even more than the first one in gathering many of the most prominent people working in the area of software architecture for product families or product lines This second workshop consisted of six sessions The first session was meant

to report the ARES results according to the topics of the next five sessions The remaining sessions dealt with different aspects of software architecture focussed on applications for product families or product lines Because there will be a separate book covering all ARES results the first session is not included in this book The workshop was chaired by Henk Obbink from Philips Research and Paul Clements from the Software Engineering Institute at Carnegie Mellon University They prepared and presented an overall conclusion at the end of the workshop This conclusion was used in the introduction to this book

Software Architectures for Product Families Frank van der Linden, 2003-06-29 This book contains the proceedings of a third workshop on the theme of Software Architecture for Product Families The first two workshops were organised by the ESPRIT project ARES and were called Development and Evolution of Software Architectures for Product Families Proceedings of the first workshop held in November 1996 were only published electronically at <http://www.dit.upm.es/ares> Proceedings of the second workshop held in February 1998 were published as Springer LNCS 1429 The ARES project was finished in February 1999 Several partners continued operation in a larger consortium ITEA project 99005 ESAPS As such it is part of the European Eureka 2023 programme The third workshop was organised as part of the ESAPS project In order to make the theme of the workshop more generic we decided to rename it International Workshop on Software Architectures for Product Families As with the earlier two workshops we managed to bring together people working in the software architecture of product families and in software product line engineering Submitted papers were grouped in five sessions Moreover we introduced two sessions one on configuration management and one on evolution because we felt that discussion was needed on these topics but there were no submitted papers for these subjects Finally we introduced a surveys session giving an overview of the present situation in Europe focussed on ESAPS and in the USA focussed on the SEI Product Line Systems Program

Managing Trade-offs in Adaptable Software Architectures Ivan Mistrik, Nour Ali, Rick Kazman, John Grundy, Bradley Schmerl, 2016-08-12 Managing Trade Offs in Adaptable Software Architectures explores the latest research on adapting large complex systems to changing requirements To be able to adapt a system engineers must evaluate different quality attributes including trade offs to balance functional and quality requirements to maintain a well functioning system throughout the lifetime of the system This comprehensive resource brings together research focusing on how to manage trade offs and architect adaptive systems in different business contexts It presents state of the art techniques methodologies tools best practices and guidelines for developing adaptive systems and offers guidance for future software engineering research and practice Each contributed chapter considers the practical application of the topic through case studies experiments empirical validation or systematic comparisons with other approaches already in practice Topics of interest include but are not limited to how to architect a system for adaptability software architecture for self adaptive systems understanding and balancing the trade offs involved architectural patterns for self adaptive systems how quality attributes are exhibited by the architecture of the system how to connect the quality of a software architecture to system architecture

or other system considerations and more Explains software architectural processes and metrics supporting highly adaptive and complex engineering Covers validation verification security and quality assurance in system design Discusses domain specific software engineering issues for cloud based mobile context sensitive cyber physical ultra large scale internet scale systems mash up and autonomic systems Includes practical case studies of complex adaptive and context critical systems

Software Architecture Foundation - 2nd edition Alexander Lorz,Gernot Starke,2023-06-01 This book covers everything you need to master the iSAQB Certified Professional for Software Architecture Foundation Level CPSA F certification This internationally renowned education and certification schema defines various learning paths for practical software architects This book concentrates on the foundation level examination explains the CPSA F curriculum in version 2023 covers every learning goal for best possible exam preparation describes the examination process contains dozens of sample examination questions contains an extensive glossary of important terms

A Process Algebraic Approach to Software Architecture Design Alessandro Aldini,Marco Bernardo,Flavio Corradini,2010-03-14 In the field of formal methods in computer science concurrency theory is receiving a constantly increasing interest This is especially true for process algebra Although it had been originally conceived as a means for reasoning about the semantics of concurrent programs process algebraic formalisms like CCS CSP ACP calculus and their extensions see e.g. [154, 119, 112, 22, 155, 181, 30] were soon used also for comprehending functional and nonfunctional aspects of the behavior of communicating concurrent systems The scientific impact of process calculi and behavioral equivalences at the base of process algebra is witnessed not only by a very rich literature It is in fact worth mentioning the standardization procedure that led to the development of the process algebraic language LOTOS [49] as well as the implementation of several modeling and analysis tools based on process algebra like CWB [70] and CADP [93] some of which have been used in industrial case studies Furthermore process calculi and behavioral equivalences are by now adopted in university level courses to teach the foundations of concurrent programming as well as the model driven design of concurrent distributed and mobile systems Nevertheless after 30 years since its introduction process algebra is rarely adopted in the practice of software development On the one hand its technicalities often obfuscate the way in which systems are modeled As an example if a process term comprises numerous occurrences of the parallel composition operator it is hard to understand the communicationscheme among the various subterms On the other hand process algebra is perceived as being difficult to learn and use by practitioners as it is not close enough to the way they think of software systems

Architecting Software Intensive Systems Anthony J. Lattanze,2008-11-18 Architectural design is a crucial first step in developing complex software intensive systems Early design decisions establish the structures necessary for achieving broad systemic properties However today's organizations lack synergy between software development processes and technological methodologies Providing a thorough treatment of

Modeling and Simulating Software Architectures Ralf H. Reussner,Steffen Becker,Jens Happe,Robert Heinrich,Anne Koziol,2016-10-28 A new quantitative architecture

simulation approach to software design that circumvents costly testing cycles by modeling quality of service in early design states Too often software designers lack an understanding of the effect of design decisions on such quality attributes as performance and reliability This necessitates costly trial and error testing cycles delaying or complicating rollout This book presents a new quantitative architecture simulation approach to software design which allows software engineers to model quality of service in early design stages It presents the first simulator for software architectures Palladio and shows students and professionals how to model reusable parametrized components and configured deployed systems in order to analyze service attributes The text details the key concepts of Palladio s domain specific modeling language for software architecture quality and presents the corresponding development stage It describes how quality information can be used to calibrate architecture models from which detailed simulation models are automatically derived for quality predictions Readers will learn how to approach systematically questions about scalability hardware resources and efficiency The text features a running example to illustrate tasks and methods as well as three case studies from industry Each chapter ends with exercises suggestions for further reading and takeaways that summarize the key points of the chapter The simulator can be downloaded from a companion website which offers additional material The book can be used in graduate courses on software architecture quality engineering or performance engineering It will also be an essential resource for software architects and software engineers and for practitioners who want to apply Palladio in industrial settings

Structure for Dependability: Computer-Based Systems from an Interdisciplinary Perspective Denis Besnard,Cristina Gacek,Cliff Jones,2006-04-28 Computer based systems are now essential to everyday life They involve both technical hardware software components and human beings as active participants Whenever we y aboard an aircraft or withdraw money from a cash point a combination of humans machines and software is supporting the delivery of the service These systems and many others benefit from the miniaturisation and cost reduction of the hardware which has made it possible for computers to be embedded everywhere An equally remarkable development is the software involved today systems are built which were literally unthinkable twenty or thirty years ago Measured in terms of their function the productivity of their creation has also advanced enormously largely cause of the software infrastructure Even the dependability of the best of today s software is praiseworthy when one considers the complexity of the functionality provided Solid engineering and the increasing adoption of methods based on firmly established theory are to be thanked here However in large and complex systems there remain major challenges to achieving dependability when complex interactions exist between technical and human components Large and complex things are understood as assemblages of simpler components the way these components fit together is the structure of the system Structure can be real and physical or a subjective mental tool for analysis

Present and Ulterior Software Engineering Manuel Mazzara,Bertrand Meyer,2017-11-01 This book provides an effective overview of the state of the art in software engineering with a projection of the future of the discipline It includes 13 papers written by leading

researchers in the respective fields on important topics like model driven software development programming language design microservices software reliability model checking and simulation The papers are edited and extended versions of the presentations at the PAUSE symposium which marked the completion of 14 years of work at the Chair of Software Engineering at ETH Zurich In this inspiring context some of the greatest minds in the field extensively discussed the past present and future of software engineering It guides readers on a voyage of discovery through the discipline of software engineering today offering unique food for thought for researchers and professionals and inspiring future research and development

Quality of Software Architectures Christine Hofmeister,Ivica Crnkovic,Ralf H. Reussner,2006-12-07 This book constitutes the thoroughly refereed post proceedings of the Second International Conference on the Quality of Software Architectures QoSA 2006 held in V ster s Sweden in June 2006 co located with the 9th International Symposium on Component Based Software Engineering CBSE 2006 Coverage includes architecture evaluation managing and applying architectural knowledge and processes for supporting architecture quality

Software Architectures and Component Technology Mehmed Aksit,2012-12-06 Software architectures have gained wide popularity in the last decade They generally play a fundamental role in coping with the inherent difficulties of the development of large scale and complex software systems Component oriented and aspect oriented programming enables software engineers to implement complex applications from a set of pre defined components Software Architectures and Component Technology collects excellent chapters on software architectures and component technologies from well known authors who not only explain the advantages but also present the shortcomings of the current approaches while introducing novel solutions to overcome the shortcomings The unique features of this book are evaluates the current architecture design methods and component composition techniques and explains their shortcomings presents three practical architecture design methods in detail gives four industrial architecture design examples presents conceptual models for distributed message based architectures explains techniques for refining architectures into components presents the recent developments in component and aspect oriented techniques explains the status of research on Piccola Hyper J Pluggable Composite Adapters and Composition Filters Software Architectures and Component Technology is a suitable text for graduate level students in computer science and engineering and as a reference for researchers and practitioners in industry

Building Reliable Component-based Software Systems Ivica Crnkovic,2002 Here s a complete guide to building reliable component based software systems Written by world renowned experts in the component based software engineering field this unique resource helps you manage complex software through the development evaluation and integration of software components You quickly develop a keen awareness of the benefits and risks to be considered when developing reliable systems using components A strong software engineering perspective helps you gain a better understanding of software component design to build systems with stronger requirements and avoid typical errors throughout the process leading to improved quality and time to market

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