Open Multithreaded Transactions

A Transaction Model for Concurrent Object-Oriented Programming

Jörg Kienzle

OPTIMA

Open Multithreaded Transactions

Paul Ezhilchelvan,Alexander Romanovsky

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Scientific Engineering for Distributed Java Applications Nicolas Guelfi,Egidio Astesiano,Gianna Reggio,2003-07-01 FIDJI 2002 was an international forum for researchers and practitioners in rested in the advances in and applications of software engineering for distri ted application development Concerning the technologies the workshop focused on Java related technologies It was an opportunity to present and observe the latest research results and ideas in these areas All papers submitted to this workshop were reviewed by at least two members of the International Program Committee Acceptance was based primarily on the originality and contribution We selected for these postworkshop proceedings 16 papers amongst 33 submitted two tutorials and two keynotes FIDJI 2002 was aimed at promoting a scienti c approach to software engin ring The scope of the workshop included the following topics design of distributed Java applications Java related technologies software and system architecture engineering and development methodo gies development methodologies for UML development methodologies for reliable distributed systems component based development methodologies management of evolutions iterations in the analysis design implementation and test phases dependability support during system lifecycle managing

inconsistencies during application development atomicity and exception handling in system development software architectures frameworks and design patterns for developing d tributed systems integration of formal techniques in the development process formal analysis and grounding of modeling notation and techniques e g <u>Transactions on Aspect-Oriented Software Development V</u> ,2009-06-18 The LNCS journal Transactions on Aspect Oriented Software Development is devoted to all facets of aspect oriented software development AOSD techniques in the context of all phases of the software life cycle from requirements and design to implementation maintenance and evolution The focus of the journal is on approaches for systematic identification modularization representation and composition of crosscutting concerns i e the aspects and evaluation of such approaches and their impact on improving quality attributes of software systems This volume the fifth in the Transactions on Aspect Oriented Software Development series contains three papers submitted through the regular channel and three papers on the special focus area of aspects dependencies and interactions The first two papers concentrate on applications of AOSD to the fields of scheduling of web applications and operations research respectively while the third paper applies the technique of bisimulation to aspect oriented languages The special focus area on aspects dependencies and interactions is introduced by the guest editors Ruzanna Chitchyan Johan Fabry Shmuel Katz and Arend Rensink **Reliable Software Technologies - Ada-Europe 2001** Dirk Craeynest,Alfred Strohmeier,2001-05-02 This book constitutes the refereed proceedings of the 6th International Conference on Reliable Software Technologies Ada Europe 2001 held in Leuven Belgium in May 2001 The 27 revised full papers presented together with five invited papers were carefully reviewed and selected from a large number of submissions The papers are organized in topical sections on program analysis distributed systems real time systems language and patterns dependable systems APIs and components real time kernels standard formats UML and XML and system evolution <u>Proceedings of WORDS ...</u> ,2002 *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 **On the Move to Meaningful Internet Systems 2003** R. Meersman,2003-10-30 This book constitutes the joint refereed proceedings of the three confederated conferences CoopIS 2003 DOA 2003 and ODBASE 2003 held in Catania Sicily Italy in November 2003 The 95 revised full papers presented were carefully reviewed and selected from a total of 360 submissions The papers are organized in topical sections on information integration and mediation Web services agent systems cooperation and evolution peer to peer systems cooperative systems trust management workflow systems information dissemination systems data management the Semantic Web data mining

and classification ontology management temporal and spatial data data semantics and metadata real time systems ubiquitous systems adaptability and mobility systems engineering software engineering and transactions *Concurrency in Dependable Computing* Paul Ezhilchelvan,Alexander Romanovsky,2013-03-14 Concurrency in Dependable Computing focuses on concurrency related issues in the area of dependable computing Failures of system components be hardware units or software modules can be viewed as undesirable events occurring concurrently with a set of normal system events Achieving dependability therefore is closely related to and also benefits from concurrency theory and formalisms This beneficial relationship appears to manifest into three strands of work Application level structuring of concurrent activities Concepts such as atomic actions conversations exception handling view synchrony etc are useful in structuring concurrent activities so as to facilitate attempts at coping with the effects of component failures Replication induced concurrency management Replication is a widely used technique for achieving reliability Replica management essentially involves ensuring that replicas perceive concurrent events identically Application of concurrency formalisms for dependability assurance Fault tolerant algorithms are harder to verify than their fault free counterparts due to the fact that the impact of component faults at each state need to be considered in addition to valid state transitions CSP Petri nets CCS are useful tools to specify and verify fault tolerant designs and protocols Concurrency in Dependable Computing explores many significant issues in all three strands To this end it is composed as a collection of papers written by authors well known in their respective areas of research To ensure quality the papers are reviewed by a panel of at least three experts in the relevant area *Open Multithreaded Transactions* Jörg Kienzle,2013-01-12 **Sixth International Workshop on Object-Oriented Real-Time Dependable Systems** ,2001 The workshop on which this text is based integrates three key computer system engineering technologies CSETs Object oriented CSET Real time CSET and Dependable CSET for developing real time distributed and safety critical applications *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 **Behavior Modeling -- Foundations and Applications** Ella Roubtsova,Ashley McNeile,Ekkart Kindler,Christian Gerth,2015-07-16 This book constitutes revised selected papers from the six International Workshops on Behavior Modelling Foundations and Applications BM FA which took place annually between 2009 and 2014 The 9 papers presented in this volume were carefully reviewed and selected from a total of 58 papers presented at these 6 workshops The contributions were organized in topical sections named modelling practices new ways of behaviour modelling events in modelling and new ways of behaviour modelling protocol modelling **UML 2001 - The Unified Modeling Language.**

Modeling Languages, Concepts, and Tools Martin Gogolla,Cris Kobryn,2003-06-30 This book constitutes the refereed proceedings of the 4th International Conference on the Unified Modeling Language 2001 held in Toronto Canada in October 2001 The 33 revised full papers presented together with one invited paper were carefully reviewed and selected from a total of 122 abstracts and 102 papers submitted The papers are organized in topical sections on metamodeling activity diagrams OCL architecture and patterns analysis and testing performance and databases graph transformations real time and embedded systems associations and ontology statecharts components and use cases **Reliable Software Technologies -- Ada-Europe 2003** Jean-Pierre Rosen,Alfred Strohmeier,2003-08-03 The refereed proceedings of the 8th International Conference on Reliable Software Technologies Ada Europe 2003 held in Toulouse France in June 2003 The 29 revised full papers presented together with 3 invited papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on Ravenscar language issues static analysis distributed information systems software metrics software components formal specification real time kernel software testing and real time systems design **Advances in Exception Handling Techniques** Alexander Romanovsky,Christophe Dony,Jorgen Lindskov Knudsen,Anand Tripathi,2003-06-29 Modern software systems are becoming more complex in many ways and have to cope with a growing number of abnormal situations which in turn are increasingly complex to handle The most general way of dealing with these problems is by incorporating exception handling techniques in software design In the past various exception handling models and techniques have been proposed and many of them are part of practical languages and software composition technologies This book is composed of five parts which deal with topics related to exception handling in the context of programming language models design methodologies concurrent and distributed systems applications and experiences and large scale systems such as database and workflow process mangagement systems The 17 coherently written chapters by leading researchers competently address a wide range of issues in exception handling **Reliable Software Technologies, Ada-Europe ...** ,2003 *Application-Layer Fault-Tolerance Protocols* De Florio, Vincenzo,2009-01-31 This book increases awareness of the need for application level fault tolerance ALFT through introduction of problems and qualitative analysis of solutions Provided by publisher **Software Engineering of Fault Tolerant Systems** P. Pelliccione,2007 In architecting dependable systems what is required to improve the overall system robustness is fault tolerance Many methods have been proposed to this end the solutions are usually considered late during the design and implementation phases of the software life cycle e g Java and Windows NT exception handling thus reducing the effectiveness error and fault handling Since the system design typically models only normal behaviour of the system while ignoring exceptional ones the implementation of the system is unable to handle abnormal events Consequently the system may fail in unexpected ways due to faults It has been argued that fault tolerance management during the entire life cycle improves the overall system robustness and that different classes of threats need to be identified for and dealt with at

each distinct phase of software development depending on the abstraction level of the software system being modelled This book builds on this trend and investigates how fault tolerance mechanisms can be applied when engineering a software system In particular it identifies the new problems arising in this area introduces the new models to be applied at different abstraction levels defines methodologies for model driven engineering of such systems and outlines the new technologies and validation and verification environments supporting this **ECOOP 2011--Object-Oriented Programming** Mira Mezini,2011-07-18 This book constitutes the refereed proceedings of the 25th European Conference on Object Oriented Programming ECOOP 2011 held in Lancaster UK in July 2011 The 26 revised full papers presented together with three keynote lectures were carefully reviewed and selected from a total of 100 submissions The papers cover topics such as empirical studies mining understanding recommending modularity modelling and refactoring aliasing and ownership as well as memory optimizations

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