

Formal Verification Of Object Oriented Software International Conference Foveos 2010 Paris France June 28 30 2010 Revised Selected Papers Lecture Notes In Computer Science

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[Formal Verification Of Object Oriented](#)

A Formal Object-Oriented Analysis for Software Reliability ...

object-oriented software systems which when translated to representations to which model checking can be applied, yield manageable state spaces These design rules are the critical initial step in the methodology for integration of formal verification by model checking into object-oriented ...

Formal Verification of Object-Oriented Software

Formal software verification has outgrown the area of academic case studies, and industry is showing serious interest The logical next goal is the verification of industrial software products Most programming languages used in industrial practice are object-oriented...

Verification & Validation of Object-Oriented Functional ...

Verification & Validation of Object-Oriented Functional Design using Formal Specification Techniques Vanessa Jackson & Emanuel Grant Department of Computer Science University of North Dakota ...

Formal Verication of Software - Formal Verification

Graphical language for object-oriented modelling Standard of Object Management Group (OMG) Object Constraint Language \mathcal{OCL} Formal textual assertion language UML Substandard Consolidation and documentation of design knowledge Patterns, idioms, architectures, frameworks, etc Industrial implementation languages Java, C# Formal ...

An Automatable Framework for Formal Specification ...

Abstract Formal verification of software is a perennial problem and an inclusion to formal verification challenges is AOP (Aspect Oriented programs) Likewise, several contrary formal verification approaches exist for OOP (Object Oriented ...

A Framework for Object Oriented Hardware Specification ...

Specman's sophisticated verification methodologies, and the object oriented concepts of the 'e' language allow a high degree of reusability of the design and the test bench 31 Specification with 'e' The main benefit of specifying with 'e' is that all common object oriented ...

The Implementation of Object Propositions: the Oprop ...

an object oriented language •Efficient static formal verification of object oriented programs still an open problem 2 Formal verification •Use formal rules to reason about correctness of programs 3 5 ...

Formal verification of object layout for C++ multiple ...

Formal verification of object layout for C++ multiple inheritance POPL'11 - 38th ACM SIGPLAN-SIGACT Symposium on Principles of Program-ming Languages, ACM, Jan 2011, Austin, TX, United States pp67-79, [101145/19263851926395](#) [hal-00674174](#) Formal Verification of Object Layout Studies of program constructs—Object-oriented

Object Oriented Programming

Object Oriented Programming 1 Version 012 Object Oriented Programming - Formal - Understandable for user & developer of the software Therefore, before the coding, verification of ...

Certification of Safety-Critical Software Under DO-178C ...

178C and DO-278 to produce a stand-alone reference for ground-based software verification For both airborne and ground-based software, DO-331, DO-332, and DO-333 provide additional guidance for software using model-based development, object-oriented programming, and formal ...

Specification and verification challenges for sequential ...

Specification and verification challenges for sequential object-oriented programs Abstract The state of knowledge in how to specify sequential programs in object-oriented languages such as Java and C# and the state of the art in automated verification ...

Testing object-oriented software: a survey

TESTING OBJECT-ORIENTED SOFTWARE 127 In addition to inheritance and polymorphism, Smith and Robson (1990) argue that other typical features of object-oriented languages are complex and ...

Formal Specification For Real-Time Object Oriented Systems ...

specification language for a real-time object oriented Formal Specification For Real-Time Object Oriented Systems With UML Design verification of these united Descartes extensions, the

Development of Verifiable Programs - Application of an ...

However, formal verification cannot be readily applied to software developed with conventional object-oriented development methods This paper presents the first phase of a two-phase approach for development of object-oriented ...