Johann M. Schumann

Automated Theorem Proving in Software Engineering

Automated Theorem Proving In Software Engineering

Vaclav Dvorak,Miroslav Sveda

Automated Theorem Proving In Software Engineering:

    Automated Theorem Proving in Software Engineering Johann M. Schumann,2013-06-29 Growing demands for the quality safety and security of software can only be satisfied by the rigorous application of formal methods during software design This book methodically investigates the potential of first order logic automated theorem provers for applications in software engineering Illustrated by complete case studies on protocol verification verification of security protocols and logic based software reuse this book provides techniques for assessing the prover s capabilities and for selecting and developing an appropriate interface architecture   Mathematical Foundations of Software Engineering Gerard O'Regan,2023-05-04 This textbook presents an introduction to the mathematical foundations of software engineering It presents the rich applications of mathematics in areas such as error correcting codes cryptography the safety and security critical fields the banking and insurance fields as well as traditional engineering applications Topics and features Addresses core mathematics for critical thinking and problem solving Discusses propositional and predicate logic and various proof techniques to demonstrate the correctness of a logical argument Examines number theory and its applications to cryptography Considers the underlying mathematics of error correcting codes Discusses graph theory and its applications to modelling networks Reviews tools to support software engineering mathematics including automated and interactive theorem provers and model checking Discusses financial software engineering including simple and compound interest probability and statistics and operations research Discusses software reliability and dependability and explains formal methods used to derive a program from its specification Discusses calculus matrices vectors complex numbers and quaternions as well as applications to graphics and robotics Includes key learning topics summaries and review questions in each chapter together with a useful glossary This practical and easy to follow textbook reference is ideal for computer science students seeking to learn how mathematics can assist them in building high quality and reliable software on time and on budget The text also serves as an excellent self study primer for software engineers quality professionals and software managers   *Software Engineering and Formal Methods* Gilles Barthe,Alberto Pardo,Gerardo Schneider,2011-10-21 This book constitutes the refereed proceedings of the 9th International Conference on Software Engineering and Formal Methods SEFM 2011 held in Montevideo Uruguay in November 2011 The 22 revised regular papers presented together with 1 short paper 2 tool papers and 4 keynote talks were carefully reviewed and selected from 105 initial abstracts and 85 full submissions Besides the regular session the conference held a special track devoted to Modeling for Sustainable Development with 5 accepted papers selected from 7 submissions that are also part of this volume The aim of SEFM is to advance the state of the art in formal methods to scale up their application in software industry and to encourage their integration with practical engineering methods   Proceedings of the workshop on automated theorem proving in software engineering ,   *Formal Methods and Software Engineering* Étienne André,Jingyi Wang,Naijun Zhan,2025-11-10 This volume LNCS 16229 constitutes the refereed proceedings of 26th

International Conference on Formal Methods and Software Engineering ICFEM 2025 in Hangzhou China during November 10 13 2025 The 20 full papers presented were carefully reviewed and selected from 47 submissions The conference focuses on wide range of research areas covering both theoretical foundations and practical applications of formal engineering methods   **ACM Transactions on Software Engineering and Methodology** ,2003   *Generating Test Templates Via Automated Theorem Proving* National Aeronautics and Space Admini,MANI PRASARD. KANCHERLA,2025-05-22 Testing can be used during the software development process to maintain fidelity between evolving specifications program designs and code implementations We use a form of specification based testing that employs the use of an automated theorem prover to generate test templates A similar approach was developed using a model checker on state intensive systems This method applies to systems with functional rather than state based behaviors This approach allows for the use of incomplete specifications to aid in generation of tests for potential failure cases We illustrate the technique on the cannonical triangle testing problem and discuss its use on analysis of a spacecraft scheduling system   IEEE/ACM International Conference on Automated Software Engineering ,2005   *Automated Theorem Proving in High-Quality Software Design* Johann Schumann,Nasa Technical Reports Server (Ntrs),2013-07 The amount and complexity of software developed during the last few years has increased tremendously In particular programs are being used more and more in embedded systems from car brakes to plant control Many of these applications are safety relevant i e a malfunction of hardware or software can cause severe damage or loss Tremendous risks are typically present in the area of aviation nuclear power plants or chemical plant control Here even small problems can lead to thousands of casualties and huge financial losses Large financial risks also exist when computer systems are used in the area of telecommunication telephone electronic commerce or space exploration Computer applications in this area are not only subject to safety considerations but also security issues are important All these systems must be designed and developed to guarantee high quality with respect to safety and security Even in an industrial setting which is or at least should be aware of the high requirements in Software Engineering many incidents occur For example the Warshaw Airbus

crash was caused by an incomplete requirements specification Uncontrolled reuse of an Ariane 4 software module was the reason for the Ariane 5 disaster Some recent incidents in the telecommunication area like illegal cloning of smart cards of D2GSM handies or the extraction of secret passwords from German T online users show that also in this area serious flaws can happen Due to the inherent complexity of computer systems most authors claim that only a rigorous application of formal methods in all stages of the software life cycle can ensure high quality of the software and lead to real safe and secure systems In this paper we will have a look in how far automated theorem proving can contribute to a more widespread application of formal methods and their tools and what automated theorem provers ATPs must provide in order to be useful

The 14th IEEE International Conference on Automated Software Engineering IEEE Computer Society,1999 Twenty five papers presented at the October 1999 conference are grouped into sessions having the broad topics of software synthesis requirements elicitation reuse test synthesis analysis verification transformation architecture and automated testing Among the topics are data mining library reuse patterns in user selected applications industrial applications of software synthesis via category theory automated translation of UML models of architectures for verification and simulation using SPIN verification of picture generated code evolving object oriented designs with refactorings automatically detecting mismatches during component based and model based development and an overview of Lutess a specification based tool for testing synchronous software There are also 25 short papers that represent novel work not yet fully mature No subject index Annotation copyrighted by Book News Inc Portland OR   **Proceedings of the Sixth International Workshop on Computer-Aided Software Engineering, CASE '93, Singapore, July 19-23** Hing-Yan Lee,Thomas F. Reid,Stan Jarzabek,1993   Formal Methods and Software Engineering ,2003   *Software Engineering* Shari Lawrence Pfleeger,Joanne M. Atlee,2010 Featuring an associated Web page and consistently combining theory with real world practical applications this text includes thought provoking questions about legal and ethical issues in software engineering

Proceedings, 11th IEEE International Conference and Workshop on the Engineering of Computer-Based Systems Vaclav Dvorak,Miroslav Sveda,2004   *Software Engineering--ESEC ...* ,1995   **Fundamental Approaches to Software Engineering** ,2000   *Software Engineering Environments* Keith H. Bennett,1989   Proceedings of the ... ACM SIGSOFT Symposium on the Foundations of Software Engineering ,1997   **15th International Conference on Automated Software Engineering 2000** ,2000 Researchers and practitioners share their latest on automating various tasks of software engineering The 23 full papers cover verification requirements evolution synthesis and code generation algebraic specification process design and testing Another 23 short papers consider such topics as   **Engineering of Computer-based Systems** IEEE Computer Society. Technical Committee on the Engineering of Computer Based Systems,2002 Papers from an April 2002 conference 25 in all report on academic achievements and industrial applications in the engineering of computer based systems Contributors represent some 12 countries and a variety of application domains

Papers deal with themes of requirements engineering processes and tools system properties and methods modeling and analysis system architecture model based system development component based design and reuse embedded systems and mobile agents Specific topics include an intelligent agent security intrusion system managing complex temporal requirements in real time control systems using category theory to model software component dependencies and advanced Petri nets for modeling mobile agent enabled interorganizational workflows There is no subject index Annotation copyrighted by Book News Inc Portland OR

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