Term Rewriting And All That Tobias Nipkow

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this book constitutes the refereed proceedings of the 9th international conference on logic for programming artificial intelligence and reasoning lpar 2002 held in tbilisi georgia in october 2002 the 30 revised full papers presented were carefully reviewed and selected from 68 submissions among the topics covered are constraint programming formal software enginering formal verification resolution unification proof planning agent splitting binary decision diagrams binding linear logic isabelle theorem prover guided reduction etc

the java programming language provides safety and security guarantees such as type safety and its security architecture they distinguish it from other mainstream programming languages like c and c in this work we develop a machine checked model of concurrent java and the java memory model and investigate the impact of concurrency on these guarantees from the formal model we automatically obtain an executable verified compiler to bytecode and a validated virtual machine

this book presents a modular framework for slicing in the proof assistant isabelle hol which is based on abstract control flow graphs building on such abstract structures renders the correctness results language independent to prove that they hold for a specific language it remains to instantiate the framework with this language which requires a formal semantics of this language in isabelle hol we show that formal semantics even for sophisticated high level languages are realizable

as society comes to rely increasingly on software for its welfare and prosperity there is an urgent need to create systems in which it can trust experience has shown that confidence can only come from a more profound understanding of the issues which in turn can come only if it is based on logically sound foundations this volume contains contributions from leading researchers in the critical disciplines of computing and information science mathematics logic and complexity all contributions are self contained aiming at comprehensibility as well as comprehensiveness the volume also contains introductory hints to technical issues concise surveys introductions and various fresh results and new perspectives

this book constitutes the refereed proceedings of the 18th international workshop on computer science logic csl 2004 held as the 13th annual conference of the eacsl in karpacz poland in september 2004 the 33 revised full papers presented together with 5 invited contributions were carefully reviewed and selected from 88 papers submitted all current aspects of logic in computer science are addressed ranging from mathematical logic and logical foundations to methodological issues and applications of logics in various computing contexts

the first cade in the third millennium this volume contains the papers presented at the eighteenth international c ference on automated deduction cade 18 held on july 27 30th 2002 at the university of copenhagen as part of the federated logic conference floc 2002 despite a large number of deduction related conferences springing into existence at the end of the last millennium the cade conferences continue to be the major forum for the presentation of new research in all aspects of automated deduction cade 18 was sponsored by the association for auto ted reasoning cade inc the department of computer science at chalmers university the gesellschaft fur informatik safelogic ab and the university of koblenz landau there were 70 submissions including 60 regular papers and 10 system scriptions each submission was reviewed by at least ve program committee members and an electronic program committee meeting was held via the int net the committee decided to accept 27 regular papers and 9 system descr tions one paper switched its category after refereeing thus the total number of system descriptions in this volume is 10 in addition to the refereed papers this volume contains an extended abstract of the cade invited talk by ian horrocks the joint cade cav invited talk by sharad malik and the joint cade tableaux invited talk by matthias baaz one more invited lecture was given by daniel jackson

this book constitutes the refereed proceedings of the 9th international conference on theorem proving in higher order logics tphol 96 held in turku finland in august 1996 the 27 revised full papers included together with one invited paper were carefully selected from a total of 46 submissions the topics addressed are theorem proving technology proof automation and decision procedures mechanized theorem proving extensions of higher order logics integration of external tools novel applications and others all in all the volume is an up to date report on the state of the art in this increasingly active field

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