ALGORITHMIC PROGRAM DEBUGGING

EHUD Y. SHAPIRO

Algorithmic Program Debugging Acm Distinguished Dissertation

Ingo J. Timm,Matthias Thimm

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Algorithmic Program Debugging Ehud Yehuda Shapiro,1985   **Tests and Proofs** Margus Veanes,Luca Vigano,2013-06-12 This book constitutes the refereed proceedings of the 7th International Conference on Test and Proofs TAP 2013 held in Budapest Hungary in June 2013 as part of the STAF 2013 Federated Conferences The 12 revised full papers presented together with one tutorial were carefully reviewed and selected from 24 submissions The papers are devoted to the synergy of proofs and tests to the application of techniques from both sides and their combination for the advancement of software quality The papers are related to the following topics test generation model based testing and mutants declarative debugging and tool testing   **Concurrency and Parallelism, Programming, Networking, and Security** Joxan Jaffar,Roland H.C. Yap,1996-11-19 This book constitutes the refereed proceedings of the Second Asian Conference on Computing Science ASIAN 96 held in Singapore in December 1996 The volume presents 31 revised full papers selected from a total of 169 submissions also included are three invited papers and 14 posters The papers are organized in topical sections on algorithms constraints and logic programming distributed systems formal systems networking and security programming and systems and specification and verification   **Logic-Based Program Synthesis and Transformation** Germán Vidal,2012-07-20 This book constitutes the thoroughly refereed proceedings of the 21st International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2011 held in Odense Denmark in July 2011 The 6 revised full papers presented together with 8 additional papers were carefully reviewed and selected from 28 submissions Among the topics covered are specification synthesis verification analysis optimization specialization security certification applications and tools program model manipulation and transformation techniques for any programming language paradigm

Concurrency, Graphs and Models Pierpaolo Degano,Rocco de Nicola,José Meseguer,2008-06-03 This Festschrift volume pubished in honor of Ugo Montanari on the occasion of his 65th birthday contains 43 papers written by friends and colleagues all leading scientists in their own right who congregated at a celebratory symposium held on June 12 2008 in Pisa The volume consists of seven sections six of which are dedicated to the main research areas to which Ugo Montanari has contributed Graph Transformation Constraint and Logic Programming Software Engineering Concurrency Models of Computation and Software Verification Each of these six sections starts with an introductory paper giving an account of Ugo Montanari s contribution to the area and describing the papers in the section The final section consists of a number of papers giving a laudation of Ugo Montanari s numerous achievements   **Tests and Proofs** Bernhard K. Aichernig,Carlo A. Furia,2016-06-20 This book constitutes the refereed proceedings of the 10th International Conference on Tests and Proofs TAP 2016 held as part of STAF 2016 in Vienna Austria in July 2016 The 8 full papers 2 short papers and 1 tool demonstration paper presented in this volume were carefully reviewed and selected from 19 submissions The book also contains one invited talk in full paper length The TAP conference promotes research in verification and formal methods that targets the interplay

of proofs and testing the advancement of techniques of each kind and their combination with the ultimate goal of improving software and system dependability   **Practical Aspects of Declarative Languages** Manuel Carro,Ricardo Peña,2010-01-07 This book constitutes the refereed proceedings of the 12th International Symposium on Practical Aspects of Declarative Languages PADL 2010 held in Madrid Spain in January 2010 colocated with POPL 2010 the Symposium on Principles of Programming Languages The 22 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 58 submissions The volume features original work emphasizing novel applications and implementation techniques for all forms of clarative concepts including functions relations logic and constraints The papers address all current aspects of declarative programming they are organized in topical sections on non monotonic reasoning answer set programming types parallelism and distribution code quality assurance domain specific languages programming aids constraints and tabling agents   **KI 2013: Advances in Artificial Intelligence** Ingo J. Timm,Matthias Thimm,2013-08-20 This book constitutes the refereed proceedings of the 36th Annual German Conference on Artificial Intelligence KI 2013 held in Koblenz Germany in September 2013 The 24 revised full papers presented together with 8 short papers were carefully reviewed and selected from 70 submissions The papers contain research results on theory and applications of all aspects of AI   **Parallel Program Debugging with Flowback Analysis** Jongdeok Choi,1989 Abstract This thesis describes the design and implementation of an integrated debugging system for parallel programs running on shared memory muli processors The goal of the debugging system is to present to the programmer a graphical view of the dynamic program dependences while keeping the execution time overhead low We first describe the use of flowback analysis to provide information on causal relationship between events in a program s execution without re executing the entire program for debugging Execution time overhead is kept low by recording only a small amount of trace during a program s execution We use semantic analysis and a technique called incremental tracing to keep the time and space overhead low As part of the semantic analysis we use a static program dependence graph structure that reduces the amount of work done at compile time and takes advantage of the dynamic information produced during execution time   Issues in Debugging Sequential and Concurrent Programs Wingshun Wilson Ho,1992   **Debugging the Communication Behavior of Distributed Programs in a Message-based System** Michael Scott Kenniston,1986   Constructing Logic Programs Jean-Marie Jacquet,1993-09-21 This is an in depth analysis of the complexities and practical advantages of several approaches to logic program development The authors highlight state of the art research illustrating and clarifying each concept by example Exercises and a general tutorial style give the book its practical perspective It addresses the problems which may be encountered in the complicated process of writing a logic program A structured discussion of each facet of this task covers broadly the synthesis derivation and analysis of a logic program as well as the necessary underlying theoretical foundations Page 4 de la couverture   **Logic Programming and Its Applications** Michel van Caneghem,David H. D.

Warren,1986 Logic programming is an emerging approach to computer science where programs are viewed as sets of logical axioms and computation is viewed as carefully controlled logical deduction The approach currently finds practical realization in the programming language PROLOG This volume contains details of research in the field with a special emphasis on applications including expert systems natural language parsing and analysis database management and knowledge acquisition circuit analysis and hardware verification **Proceedings of the Sixth International Conference on Software Engineering and Knowledge Engineering** Knowledge Systems Institute,1994-06 ACM SIGGRAPH '89 Course Notes ,1989 Proceedings of the ... International Joint Conference on Artificial Intelligence ,1999 Proceedings ,1996 **Advances in Inductive Logic Programming** Luc de Raedt,1996 **Functional Programming, Glasgow 1990** Simon L. Peyton Jones,Graham Hutton,Carsten Kehler Holst,1991 **Foundations of Intelligent Systems** ,1997

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