1.	Record Nr.	UNINA9910143891803321
	Titolo	Static Analysis : 9th International Symposium, SAS 2002, Madrid, Spain, September 17-20, 2002. Proceedings / / edited by Manuel Hermenegildo, German Puebla
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2002
	ISBN	3-540-45789-5
	Edizione	[1st ed. 2002.]
	Descrizione fisica	1 online resource (XII, 536 p.)
	Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2477
	Disciplina	005.1
	Soggetti	Database management
		Programming languages (Electronic computers)
		Computer logic
		Software engineering
		Logic, Symbolic and mathematical
		Computer programming
		Database Management
		Programming Languages, Compilers, Interpreters
		Logics and Meanings of Programs
		Software Engineering
		Mathematical Logic and Formal Languages
		Programming Techniques
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Static Program Analysis via 3-Valued Logic -- Open Modeling in Multi-stakeholder Distributed Systems: Research and Tool Challenges -- An Algebraic Approach to the Static Analysis of Concurrent Software -- Polynomial Constants Are Decidable -- Normalizable Horn Clauses, Strongly Recognizable Relations, and Spi -- Nonuniform Alias Analysis of Recursive Data Structures and Arrays -- Representing and Approximating Transfer Functions in Abstract Interpretation of Hetereogeneous Datatypes -- Automated Verification of Concurrent Linked Lists with Counters -- Backward Type Inference Generalises

Type Checking -- More Precise Yet Efficient Type Inference for Logic Programs -- A Few Graph-Based Relational Numerical Abstract Domains -- Static Analysis of the Numerical Stability of Loops -- On Termination of Logic Programs with Floating Point Computations -- Modular Control Flow Analysis for Libraries -- An Efficient Inclusion-Based Points-To Analysis for Strictly-Typed Languages -- Compactly Representing First-Order Structures for Static Analysis -- Possibly Not Closed Convex Polyhedra and the Parma Polyhedra Library -- Speeding Up Dataflow Analysis Using Flow-Insensitive Pointer Analysis -- Improving the Precision of Equality-Based Dataflow Analyses -- Guaranteed Optimization: Proving Nullspace Properties of Compilers -- Representation Analysis for Coercion Placement -- Pipeline Modeling for Timing Analysis -- Analysing Approximate Confinement under Uniform Attacks -- An Improved Constraint-Based System for the Verification of Security Protocols -- From Secrecy to Authenticity in Security Protocols -- Security Typings by Abstract Interpretation -- Static Confidentiality Enforcement for Distributed Programs -- Refinement of LTL Formulas for Abstract Model Checking -- Making Abstract Model Checking Strongly Preserving -- Semantics for Abstract Interpretation-Based Static Analyzes of Temporal Properties -- Checking Safety Properties of Behavioral VHDL Descriptions by Abstract Interpretation -- States vs. Traces in Model Checking by Abstract Interpretation -- Reuse of Results in Termination Analysis of Typed Logic Programs -- Finiteness Analysis in Polynomial Time -- Detecting Optimal Termination Conditions of Logic Programs.

| Sommario/riassunto | Staticanalysisisaresearchareaaimedatdevelopingprinciplesandtoolsfor-ri'cation and semantics-based manipulation of programs and high-performance implementation of programming languages. The series of Static Analysis S- posia is a forum for the presentation and discussion of advances in the area. This volume contains the papers accepted for presentation at the Ninth - ternational Static Analysis Symposium (SAS 2002), which was held Sept- ber 17-20, 2002 in Madrid, Spain. Previous SAS symposia were held in - ris, France (LNCS 2126), Santa Barbara, CA, USA (LNCS 1824), Venice, Italy (LNCS1694),Pisa,Italy (LNCS1503),Paris,France(LNCS1302),Aachen,G- many (LNCS 1145), Glasgow, UK (LNCS 983), Namur, Belgium (LNCS 864), followingtheinternationalworkshopWSAinPadova,Italy(LNCS724),Bor-aux,France(BigreVol.81-82)andJTASPEFL/WSA,Bordeaux,France(Bigre Vol. 74). In response to the call for papers, 86 contributions were submitted from 12 di'erent countries. Following on-line discussions, the Program Committee met in Madrid on June 22, 2002, and selected 32 papers, basing this choice on their scienti'cqualityandrelevancetothesymposium. Eachpaperwasreviewedbyat leastthreeProgramCommitteemembersorexternalreferees. Inadditiontothe contributed papers, this volume includes abstracts of invited talks by Thomas Reps(UniversityofWisconsin,USA),RobertHall (AT&TLabsResearch,USA), and Javier Esparza (University of Edinburgh, United Kingdom). On behalf of the Program Committee, the Program Chairs would like to thank all the authors who submitted papers and all the external referees for their careful work in the reviewing process. The support of the several funding agencies, listed later in the volume, which provided part of the funds for the organization of the conference is also gratefully acknowledged. |