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Soggetti	Programming languages (Electronic computers) Mathematical logic Artificial intelligence Computer logic Programming Languages, Compilers, Interpreters Mathematical Logic and Formal Languages Artificial Intelligence Logics and Meanings of Programs
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Nota di contenuto	Invited Lectures -- Notions of Average-Case Complexity for Random 3-SAT -- Abstract Interpretation of Proofs: Classical Propositional Calculus -- Applications of Craig Interpolation to Model Checking -- Bindings, Mobility of Bindings, and the λ -Quantifier: An Abstract -- My (Un)Favourite Things -- Regular Papers -- On Nash Equilibria in Stochastic Games -- A Bounding Quantifier -- Parity and Exploration Games on Infinite Graphs -- Integrating Equational Reasoning into Instantiation-Based Theorem Proving -- Goal-Directed Methods for λ ukasiewicz Logic -- A General Theorem on Termination of Rewriting -- Predicate Transformers and Linear Logic: Yet Another Denotational Model -- Structures for Multiplicative Cyclic Linear Logic: Deepness vs Cyclicity -- On Proof Nets for Multiplicative Linear Logic with Units -- The Boundary Between Decidability and Undecidability for Transitive-Closure Logics -- Game-Based Notions of Locality Over Finite Models

-- Fixed Points of Type Constructors and Primitive Recursion -- On the Building of Affine Retractions -- Higher-Order Matching in the Linear λ -calculus with Pairing -- A Dependent Type Theory with Names and Binding -- Towards Mechanized Program Verification with Separation Logic -- A Functional Scenario for Bytecode Verification of Resource Bounds -- Proving Abstract Non-interference -- Intuitionistic LTL and a New Characterization of Safety and Liveness -- Moving in a Crumbling Network: The Balanced Case -- Parameterized Model Checking of Ring-Based Message Passing Systems -- A Third-Order Bounded Arithmetic Theory for PSPACE -- Provably Total Primitive Recursive Functions: Theories with Induction -- Logical Characterizations of PSPACE -- The Logic of the Partial λ -Calculus with Equality -- Complete Lax Logical Relations for Cryptographic Lambda-Calculi -- Subtyping Union Types -- Pfaffian Hybrid Systems -- Axioms for Delimited Continuations in the CPS Hierarchy -- Set Constraints on Regular Terms -- Unsound Theorem Proving -- A Space Efficient Implementation of a Tableau Calculus for a Logic with a Constructive Negation -- Automated Generation of Analytic Calculi for Logics with Linearity.

Sommario/riassunto

This volume contains papers selected for presentation at the 2004 Annual Conference of the European Association for Computer Science Logic, held on September 20–24, 2004 in Karpacz, Poland. The CSL conference series started as the International Workshops on Computer Science Logic, and then, after several meetings, became the Annual Conference of the European Association for Computer Science Logic. This conference was the 18th meeting, and the 13th EACSL conference. Altogether 99 abstracts were submitted, followed by 88 papers. Each of these papers was refereed by at least three reviewers. Then, after a two-week electronic discussion, the Programme Committee selected 33 papers for presentation at the conference. Apart from the contributed papers, the Committee invited lectures from Albert Atserias, Martin Hyland, Dale Miller, Ken McMillan and Pawel Urzyczyn. We would like to thank all PC members and the subreferees for their excellent work. The electronic PC meeting would not be possible without good software support. We decided to use the GNU CyberChair system, created by Richard van de Stadt, and we are happy with this decision. We also would like to thank Michał Moskal who installed and ran CyberChair for us. Finally, we would like to thank Tomasz Wierzbicki, who helped with the preparation of this volume. We gratefully acknowledge financial support for the conference received from the Polish Committee for Scientific Research, and Wrocław University. July 2004 Jerzy Marcinkowski and Andrzej Tarlecki Organization CSL 2004 was organized by the Institute of Computer Science, Wrocław University.
