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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 6172
Disciplina	005.1015113
Soggetti	Computer science Software engineering Machine theory Compilers (Computer programs) Artificial intelligence Immunospecificity Computer Science Logic and Foundations of Programming Software Engineering Formal Languages and Automata Theory Compilers and Interpreters Artificial Intelligence Adaptive Immunity
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- A Formally Verified OS Kernel. Now What? -- Proof Assistants as Teaching Assistants: A View from the Trenches -- Proof Pearls -- A Certified Denotational Abstract Interpreter -- Using a First Order Logic to Verify That Some Set of Reals Has No Lebesgue Measure -- A New Foundation for Nominal Isabelle -- (Nominal) Unification by Recursive Descent with Triangular Substitutions -- A Formal Proof of a Necessary and Sufficient Condition for Deadlock-Free Adaptive

Networks -- Regular Papers -- Extending Coq with Imperative Features and Its Application to SAT Verification -- A Tactic Language for Declarative Proofs -- Programming Language Techniques for Cryptographic Proofs -- Nitpick: A Counterexample Generator for Higher-Order Logic Based on a Relational Model Finder -- Formal Proof of a Wave Equation Resolution Scheme: The Method Error -- An Efficient Coq Tactic for Deciding Kleene Algebras -- Fast LCF-Style Proof Reconstruction for Z3 -- The Optimal Fixed Point Combinator -- Formal Study of Plane Delaunay Triangulation -- Reasoning with Higher-Order Abstract Syntax and Contexts: A Comparison -- A Trustworthy Monadic Formalization of the ARMv7 Instruction Set Architecture -- Automated Machine-Checked Hybrid System Safety Proofs -- Coverset Induction with Partiality and Subsorts: A Powerlist Case Study -- Case-Analysis for Rippling and Inductive Proof -- Importing HOL Light into Coq -- A Mechanized Translation from Higher-Order Logic to Set Theory -- The Isabelle Collections Framework -- Interactive Termination Proofs Using Termination Cores -- A Framework for Formal Verification of Compiler Optimizations -- On the Formalization of the Lebesgue Integration Theory in HOL -- From Total Store Order to Sequential Consistency: A Practical Reduction Theorem -- Equations: A Dependent Pattern-Matching Compiler -- A Mechanically Verified AIG-to-BDD Conversion Algorithm -- Inductive Consequences in the Calculus of Constructions -- Validating QBF Invalidity in HOL4 -- Rough Diamonds -- Higher-Order Abstract Syntax in Isabelle/HOL -- Separation Logic Adapted for Proofs by Rewriting -- Developing the Algebraic Hierarchy with Type Classes in Coq.

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