Record Nr.	UNISA996466275603316
Titolo	Certified Programs and Proofs [[electronic resource]] : Second International Conference, CPP 2012, Kyoto, Japan, December 13-15, 2012, Proceedings / / edited by Chris Hawblitzel, Dale Miller
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2012
ISBN	3-642-35308-8
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (X, 305 p. 64 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 7679
Disciplina	004.01/51
Soggetti	Computer science
	Machine theory
	Compilers (Computer programs)
	Computer science—Mathematics
	Software engineering
	Computer Science Logic and Foundations of Programming
	Formal Languages and Automata Theory
	Compilers and Interpreters
	Symbolic and Algebraic Manipulation
	Software Engineering
	Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	International conference proceedings.
Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Scalable Formal Machine Models Mechanized Semantics for Compiler Verification Automation in Computer-Aided Cryptography: Proofs, Attacks and Designs Program Certification by Higher-Order Model Checking A Formally-Verified Alias Analysis Mechanized Verification of Computing Dominators for Formalizing Compilers On the Correctness of an Optimising Assembler for the Intel MCS-51 Microprocessor An Executable Semantics for CompCert C Producing Certified Functional Code from Inductive Specifications The New Quickcheck for Isabelle: Random, Exhaustive and Symbolic

	Testing under One Roof Proving Concurrent Noninterference Noninterference for Operating System Kernels Compositional Verification of a Baby Virtual Memory Manager Shall We Juggle, Coinductively? Proof Pearl: Abella Formalization of -Calculus Cube Property A String of Pearls: Proofs of Fermat's Little Theorem Compact Proof Certificates for Linear Logic Constructive
	Completeness for Modal Logic with Transitive Closure Rating Disambiguation Errors A Formal Proof of Square Root and Division Elimination in Embedded Programs Coherent and Strongly Discrete Rings in Type Theory Improving Real Analysis in Coq: A User- Friendly Approach to Integrals and Derivatives.
Sommario/riassunto	This book constitutes the refereed proceedings of the Second International Conference on Certified Programs and Proofs, CPP 2012, held in Kyoto, Japan, in December 2012. The 18 revised regular papers presented were carefully reviewed and selected from 37 submissions. They deal with those topics in computer science and mathematics in which certification via formal techniques is crucial.