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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 534
Disciplina	005.7/3
Soggetti	Computer programming Programming languages (Electronic computers) Computer logic Software engineering Programming Techniques Programming Languages, Compilers, Interpreters Logics and Meanings of Programs Software Engineering
Lingua di pubblicazione	Inglese
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Nota di contenuto	ADT implementation and completion by induction from examples -- An association of Algebraic term nets and abstract data types for specifying real communication protocols -- The specification language GSBL -- Composition of algebraic high-level nets -- A match operation for rule-based modular system design -- Towards object-oriented algebraic specifications -- Inductive completion for transformation of equational specifications -- A notion of implementation for the specification language OBSCURE -- Model-theoretic specifications and back-and-forth equivalences -- Universal algebra in higher types -- Clausal rewriting: Applications and implementation -- Constraints for behavioural specifications -- Entities: An institution for dynamic systems -- A 2-category approach to critical pair completion -- A kernel specification formalism with higher-order parameterisation --

Extended ML: Past, present and future -- Dependent types considered necessary for specification languages -- Generic types in a language for data directed design -- Design of a compiler for lazy pattern driven narrowing.

Sommario/riassunto

The algebraic specification of abstract data types is now a well established research topic in computer science. This area influences both applications and theoretical foundations of methodologies which support the design and formal development of reliable software. The Seventh Workshop on Specification of Abstract Data Types took place in Wusterhausen/Dosse, April 17-20, 1990, and was organized in cooperation with the ESPRIT Basic Research Working Group COMPASS. The main topics covered by the workshop were: - Modularization - Object orientation - Higher-order types and dependent types - Inductive completion - Algebraic high-level nets.
