

1. Record Nr.	UNISA996466118803316
Titolo	Recent Trends in Data Type Specification [[electronic resource]] : 10th Workshop on Specification of Abstract Data Types Joint with the 5th COMPASS Workshop, S. Margherita, Italy, May 30 - June 3, 1994. Selected Papers // edited by Egidio Astesiano, Gianna Reggio
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1995
ISBN	3-540-49198-8
Edizione	[1st ed. 1995.]
Descrizione fisica	1 online resource (VIII, 532 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 906
Disciplina	005.7/3
Soggetti	Data structures (Computer science) Software engineering Programming languages (Electronic computers) Computer logic Data Structures and Information Theory Software Engineering Programming Languages, Compilers, Interpreters Logics and Meanings of Programs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Combining algebra and universal algebra in first-order theorem proving: The case of commutative rings -- Bulk types and query language design -- From abstract data types to logical frameworks -- Algebraic specification languages: An overview -- Types, subtypes, and ASL+ -- On the operational semantics of the algebraic and logic programming language LPG -- Behavioural theories -- Equations for describing dynamic nets of communicating systems -- A lazy approach to partial algebras -- Transactions in object-oriented specifications -- Local specification of distributed families of sequential objects -- Dynamic abstract data types based on algebraic graph transformations -- Modular termination of term rewriting systems revisited -- Institutions for behaviour specification -- An algebraic semantics for the object specification language TROLL light -- Defining equations in

terminal coalgebras -- Sort inheritance for order-sorted equational presentations -- Axiomatic specification of large information systems: Experiences and consequences -- An object-oriented airport: Specification and refinement in Maude -- Topological methods for algebraic specification -- A hierarchy of institutions separated by properties of parameterized abstract data types -- Dynamical behavior of object systems -- A theory-based topological notion of institution -- Typing abstract data types -- Multialgebras, power algebras and complete calculi of identities and inclusions -- Institutional frames -- Implementation of data structures in an imperative framework -- What is an Abstract Data Type, after all?.

Sommario/riassunto

This volume comprises the invited surveys and revised versions of the submitted papers selected for presentation at the 10th Workshop on Specification of Abstract Data Types, held jointly with the 4th COMPASS Workshop in S. Margherita, Italy in June 1994. The volume gives a comprehensive state-of-the-art report of the research activities: besides classical algebraic techniques, other relevant topics are investigated, such as formalisms based on general logics and category theory, type systems for specification languages and new structures for modelling dynamic systems. In addition to four surveys by prominent leaders in the area and 23 papers presenting original research, the book contains an annotated bibliography covering all contributions to the ten editions of the workshop.
