

1. Record Nr.	UNISA996465313103316
Titolo	Algebraic and logic programming : international workshop, Gaussing, GDR, November 14-18, 1988 : proceedings // J. Grabowski, P. Lescanne, W. Wechler (editors)
Pubbl/distr/stampa	Berlin : , : Springer-Verlag, , [1988] ©1988
ISBN	3-540-46063-2
Edizione	[1st ed. 1988.]
Descrizione fisica	1 online resource (IX, 269 p.)
Collana	Lecture notes in computer science ; ; 343
Disciplina	005.115
Soggetti	Logic programming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	ACP with signals -- Functional extensions to prolog: Are they needed? -- Narrowing and resolution in logic-functional programming languages -- Nondeterministic algebraic specifications and nonconfluent term rewriting -- OBJ: Programming with equalities, subsorts, overloading and parameterization -- Logic programming with polymorphically order-sorted types -- Integrating logic programming and equational specification of abstract data types -- Narrowing with built-in theories -- A completion procedure for hierarchical conditional rewriting systems -- An effective method for handling initial algebras -- Boolean valued models and incomplete specifications -- Types, modularisation and abstraction in logic programming -- Translating algebraic specifications to Prolog programs: A comparative study -- Rewrite rule systems for modal propositional logic -- A characterization of irreducible sets modulo left-linear term rewriting systems by tree automata -- Functional data term models and semantic unification -- Modular algebraic specifications -- Proving inductive theorems based on term rewriting systems -- Jungle evaluation for efficient term rewriting -- A new quasi-reducibility testing algorithm and its application to proofs by induction -- Fuzzy reasoning based on f-horn clause rules -- Babel: A functional and logic programming language based on constructor discipline and narrowing -- Refined compilation of pattern-matching for functional languages -- Narrowing

in partial conditional equational theories -- Solving equations in an equational language -- Nonstandard logics of recursive programs and denotational semantics. .

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Sommario/riassunto

This volume contains the proceedings of the First International Workshop on Algebraic and Logic Programming held in Gaussig (German Democratic Republic) from November 14 to 18, 1988. The workshop was devoted to Algebraic Programming, in the sense of programming by algebraic specifications and rewrite rule systems, and Logic Programming, in the sense of Horn clause specifications and resolution systems. This includes combined algebraic/logic programming systems, mutual relations and mutual implementation of programming paradigms, completeness and efficiency considerations in both fields, as well as related topics.

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