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	Disciplina	004.2/1
	Soggetti	Computers
		Computer programming
		Software engineering
		Programming languages (Electronic computers)
		Artificial intelligence
		Computer graphics
		Theory of Computation
		Programming Techniques
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	Nota di contenuto	Current problems in computer algebra systems design -- The design of cayley — a language for modern algebra -- CoCoA: A user-friendly system for commutative algebra -- The design of SISYPHE : a system for doing symbolic and algebraic computations -- Scratchpad's view of algebra I: Basic commutative algebra -- Design issues for a computed-aided environment for constructive mathematics -- Efficient type inference and coercion in computer algebra -- Abstract specification of mathematical structures and methods -- Programming paradigms for symbolic computation systems analysis of an example -- The

computation of Gröbner bases on a shared memory multiprocessor --
A theory for program and data type specification -- Context induction:
A proof principle for behavioural abstractions -- Completion modulo
associativity, commutativity and identity (AC1) -- Polymorphic type
checking with subtypes in Prolog -- On the power of subsumption and
context checks -- Putting algebraic components together: A dependent
type approach -- The use of proof plans in formal methods -- A prolog
technology theorem prover: A new exposition and implementation in
Prolog -- Parametric queries, linear constraints and variable elimination
-- AC-unification race: The system solving approach and its
implementation -- Heuristical criteria in refutational theorem proving
-- Requirements for standards in knowledge base systems --
Reconciling symbolic and numeric computation in a practical setting --
The design and specification of the ASSPEGIQUE database -- A
functional and logic language with polymorphic types -- Graphical
object oriented executable specification for an automation oriented
paradigm of software development -- Building graphic user interfaces
for computer algebra systems -- A system independent graphing
package for mathematical functions -- A model of interaction for
graphical systems -- Praxis: A rule-based expert system for MACSYMA
-- Will DELiA grow into an expert system? -- The GANITH algebraic
geometry toolkit -- Mas Modula-2 algebra system -- Prototypes for
the automatic translation of computer algebra languages -- The
implementation of A PC-based list processor for symbolic computation
-- Implementation of the symbol analytic transformations language
FLAC -- Design and development of ENprover, an automated theorem
proving system based on EN-strategy -- Towards a logic language: An
object-oriented implementation of the connection method --
Suggestions for a friendlier user interface.

| Sommario/riassunto | The growing importance of the systems for symbolic computation has greatly influenced the decision of organizing DISCO '90 which is short for International Symposium on Design and Implementation of Symbolic Computation Systems. DISCO '90 focuses mainly on the most innovative methodological and technological aspects of hardware and software system design and implementation for Symbolic and Algebraic Computation, Automated Reasoning, Software Environments (Languages and User Interfaces), and Automatic Programming. In particular, it includes papers on the design and the development of significant running systems. The general objective of DISCO '90 is to present an up-to-date view of the field, while encouraging the scientific exchange among academic, industrial and user communities of the development of systems for symbolic computation. |