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	Disciplina	005.1
	Soggetti	Software engineering
		Architecture, Computer
		Programming languages (Electronic computers)
		Artificial intelligence
		Computer logic
		Computer programming
		Software Engineering/Programming and Operating Systems
		Computer System Implementation
		Programming Languages, Compilers, Interpreters
		Artificial Intelligence
		Logics and Meanings of Programs
		Programming Techniques
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	Formato	Materiale a stampa
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	Nota di contenuto	Static analysis of functional programs with logical variables -- Towards a clean amalgamation of logic programs with external procedures -- An application of abstract interpretation in source level program transformation -- A tool to check the non-floundering logic programs and goals -- Towards a framework for the abstract interpretation of logic programs -- An implementation of retargetable code generators in prolog -- Towards a "middle road" methodology for writing code generators -- A compiler written in prolog: the véda experience --

Coupled context-free grammar as a programming paradigm -- A bottom-up adaptation of earley's parsing algorithm -- Using an attribute grammar as a logic program -- Structure sharing in attribute grammars -- A semantic evaluator generating system in prolog -- A grammatical view of logic programming -- Compiling typol with attribute grammars -- Formal specification of a prolog compiler -- Formal specification of interactive languages using definite clause grammars -- Using logic databases in software development environments.

| Sommario/riassunto | The aim of the workshop was to discuss whether research on implementation of programming languages and research on logic programming can mutually benefit from each others results. The intention was to bring together researchers from both fields, especially those working in the area of their intersection. Problems such as formal specification of compilers and syntax-based editors, program analysis and program optimization have been traditionally studied by implementors of algorithmic languages and have resulted in a number of well-established notions, formalisms and techniques. At the same time, an increasing number of people use logic programming as a way of specifying compilers or other programming environment tools, taking advantage of the relatively high level of logic programming and the growing efficiency of Prolog implementations. On the other hand, research on logic programming raises the questions of analysis of logic programs and their optimization. These are motivated primarily by compiler construction for logic programs, by studies on the methodology of logic programming and by the attempts to amalgamate logic programming and functional programming. The purpose of the workshop is to review the techniques developed in one (or both) of the fields which could also be of some help in the other one and to facilitate the transfer of expertise. It seems important to compare notions used in both fields: showing similarities between them may prevent rediscovering results already known, while studying differences may contribute to the transfer of technology. |