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Descrizione fisica	1 online resource (X, 378 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 590
Disciplina	004/.35
Soggetti	Artificial intelligence Software engineering Architecture, Computer Computer programming Microprocessors Artificial Intelligence Software Engineering/Programming and Operating Systems Computer System Implementation Programming Techniques Processor Architectures
Lingua di pubblicazione	Inglese
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Nota di contenuto	Potentiality of parallelism in logic -- Parallel theorem provers An overview -- Parallel unification: Theory and implementations -- Connectionist inference systems -- Implementing parallel rewriting -- Experiments with Roo, a parallel automated deduction system -- A process algebra over the Herbrand Universe: Application to parallelism in automated deduction -- Using the Reform inference system for parallel Prolog -- Random competition: A simple, but efficient method for parallelizing inference systems -- Parallel and efficient implementation of the compartmentalized connection graph proof procedure: Resolution to unification -- Constraint satisfaction via partially parallel propagation steps -- A parallel theorem prover with heuristic work distribution -- Non-WAM models of logic programming

and their support by novel parallel hardware -- The adam abstract dataflow machine -- Parallel computation model for parallel prolog -- Application of connectionist models to fuzzy inference systems -- CHCL — A connectionist inference system -- Project Summaries.

Sommario/riassunto

This volume contains the proceedings of an international workshop on parallelism in inference systems held in Germany in December 1990. The topic of the workshop is still rather young and several papers in the book are overview articles intended to provide a first orientation toward some of the more intensively investigated subtopics. The main part of the book is a compilation of research papers on parallelization in special domains of inference such as rewriting, automatic reasoning, logic programming, and connectionist inference. Appended to the book is a collection of short project summaries received in response to a worldwide email call. The book is intended primarily for researchers working on inference systems who are interested in parallelizing their systems.
