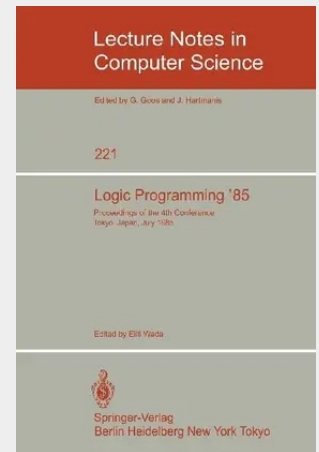


Logic Programming '85

Architecture and evaluation of a Reduction-based Parallel Inference Machine : PIM-R.- Hardware simulator of Reduction-Based Parallel Inference Machine PIM-R.- A note on the elementary execution unit in a parallel inference machine.- Parallel Prolog machine PARK: Its hardware structure and prolog system.- Heuristics applied in tree manipulation algorithm synthesis.- Analogical reasoning using transformations of rules.- Synchronization and communication in the λ subject λ .- Zero : Frame + prolog.- PRESET λ A debugging environment for Prolog.- Proedit λ a screen oriented Prolog programming environment.- Software prototyping with MENDEL.- Retrieval of software module functions using first-order predicate logical formulae.- Temporal logic programming language Tokio programming in Tokio.- Implementation of temporal logic programming language Tokio.- Heuristic prolog: Logic program execution by heuristic search.- And-or queuing in Extended Concurrent Prolog.- Guarded horn clauses.- TDProlog: An extended Prolog with term description.- Design and evaluation of a Prolog compiler.- The program characteristics in logic programming language ESP.- Extended Prolog and its application to an integrated parser for text understanding.- A travel consultation system: Towards a smooth conversation in Japanese.- A Prolog-based Korean-English Machine Translation System and its efficient method of dictionary management.- Using the temporal logic programming language Tokio for algorithm description and automatic CMOS gate array synthesis.- A parallel logic simulator based on Concurrent Prolog.- A method of representing processes in a constraint solver.- KRIP: A knowledge representation system for laws relating to industrial property.- Consultation system for diagnosis of headache and facial pain: λ Rhinos λ .- Knowledge realization and transformation in KRISP.

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