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Collana	Lecture Notes in Artificial Intelligence ; ; 636
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Soggetti	Artificial intelligence Software engineering Mathematical logic Computer programming Artificial Intelligence Software Engineering/Programming and Operating Systems Mathematical Logic and Foundations Programming Techniques Mathematical Logic and Formal Languages Software Engineering
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Nota di contenuto	Theory and practice in logic programming -- Constraint Logic Programming -- Scheduling and optimisation in the Automobile Industry -- Factory scheduling using finite domains -- The Prince project and its applications -- A (Gentle) introduction to deductive databases -- Knowledge based PPS applications in PROTOS-L -- The SECRets banking expert system from phase 1 to phase 2 -- Logic engineering and clinical dilemmas -- A knowledge-based approach to strategic planning -- Expert systems in mining -- Natural and formal language processing -- PUNDIT — Natural language interfaces -- The Esteam-316 dialogue manager -- Legislation as logic programs -- Knowledge representation for natural language processing -- A set of

tools for VHDL design -- Tutorial notes: Reasoning about logic programs -- Software formal specification by logic programming: The example of standard Prolog -- The art of computer un-programming: Reverse engineering in Prolog -- Opium — An advanced debugging system -- Automatic theorem proving within the portable AI Lab.

Sommario/riassunto

Logic programming enjoys a privileged position. It is firmly rooted in mathematical logic, yet it is also immensely practical, as a growing number of users in universities, research institutes, and industry are realizing. Logic programming languages, specifically Prolog, have turned out to be ideal as prototyping and application development languages. This volume presents the proceedings of the Second Logic Programming Summer School, LPSS'92. The First Logic Programming Summer School, LPSS '90, addressed the theoretical foundations of logic programming. This volume focuses on the relationship between theory and practice, and on practical applications. The introduction to the volume is by R. Kowalski, one of the pioneers in the field. The following papers are organized into sections on constraint logic programming, deductive databases and expert systems, processing of natural and formal languages, software engineering, and education.
