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Collana	Lecture Notes in Artificial Intelligence ; ; 617
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Nota di contenuto	AI: Introduction, paradigms, applications (including CBR), impacts, visions -- Artificial intelligence and connectionism: Some philosophical implications -- Logic for representing and implementing knowledge about system behaviour -- Prolog: A step towards the future of programming -- An introduction to constraint logic programming -- Logic and databases -- to machine learning -- Approaches to inductive logic programming -- Advanced machine learning techniques for computer vision -- Notes on current trends in AI planning -- The application of reason maintenance systems in planning and scheduling -- Practical applications of planning tasks -- The role of uncertainty measures and principles in AI -- to probabilistic methods of knowledge representation and processing -- On belief functions -- Data analysis and uncertainty processing -- Some aspects of knowledge engineering -- An automatic knowledge acquisition tool -- Distributed AI and its applications -- Architectures for second generation knowledge based systems -- An introduction to qualitative reasoning -- Model-based diagnosis: An overview -- Dynamic system simulation with qualitative differential equations -- An introduction to neurocomputing and its possible role in AI -- Intelligent presentation and dialogue management -- Linguistic aspects of natural language processing.
Sommario/riassunto	This volume contains the texts of 26 lectures and contributions to the

program of the International Summer School on Advanced Topics in Artificial Intelligence held in Prague, Czechoslovakia, July 6-17, 1992. The summerschool was intended for (postgraduate) students, researchers and all those who want to learn about recent progress in both theoretical and applied AI. The papers in the volume are organized into nine parts: - Introduction - Logic and logic programming - Machine learning - Planning and scheduling - Uncertainty - Second generation expert systems and knowledge engineering - Qualitative reasoning - Neurocomputing - Natural language and interfaces.

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