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	Nota di contenuto	A semantics for the integration of database modifications and transaction brackets into a logic programming language -- Handling incomplete knowledge in artificial intelligence -- Negation in logic programming: A formalization in constructive logic -- Database support for knowledge representation? -- A KBMS for BABYLON -- Database concepts for the support of knowledge-based systems -- Integrity and recursion: two key issues for deductive databases -- An approach to DBS-based knowledge management -- Knowledge bases and databases: Current trends and future directions -- Terminological reasoning and information management -- Conceptual modeling of database applications -- Information analysis: A step by step

clarification of knowledge and requirements -- Model-based knowledge acquisition -- Practical experiences — a panel session -- Practical experiences in coupling knowledge base and database in a productive environment -- Performance measurements and analyses of coupling approaches of database and expert systems and consequences to their integration -- Integration of AI systems in conventional environments.

Sommario/riassunto	Knowledge-based systems have been successfully developed in practice for a number of years. However, they are often "only" stand-alone systems; integrating them into existing information environments, e.g. making available real production data to an expert system, often either fails or is only solved in a dissatisfying way. Possible reasons for this might be on one hand the lack of know-how about the different features of various experimental AI techniques, and on the other the lack of more classical information and database system technology. The special interest groups "Knowledge Representation" and "Methods for the Development of Information Systems and their Application" of the German Informatics Society (GI) organized a joint workshop in Ulm in March 1990 to discuss the integration of Artificial Intelligence and database technology. This volume contains the proceedings of the workshop.