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Autore	Wagner Gerd
Titolo	Vivid Logic [[electronic resource] ] : Knowledge-Based Reasoning with Two Kinds of Negation // by Gerd Wagner
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ISBN	3-540-48288-1
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Descrizione fisica	1 online resource (XIII, 155 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 764
Disciplina	006.3/3
Soggetti	Artificial intelligence Computer programming Mathematical logic Artificial Intelligence Programming Techniques Mathematical Logic and Formal Languages Mathematical Logic and Foundations
Lingua di pubblicazione	Inglese
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	General introduction -- Vivid knowledge representation and reasoning -- Partiality, paraconsistency and constructivity -- Vivid reasoning on the basis of facts -- Lindenbaum-algebraic semantics of logic programs -- Logic programming with strong negation and inexact predicates -- Vivid reasoning on the basis of rules -- Further topics, open problems.
Sommario/riassunto	Knowledge representation research is not only formal, it is also descriptive and normative. Its aim is to implement a formal system which captures a practically relevant body of cognitive faculties employed by humans and capitalizes on its technical strength to extend human knowledge representation and reasoning capabilities. In this monograph, the author develops formalisms for his own notion of a vivid knowledge representation and reasoning system, characterized by the presence of two kinds of negation (weak and strong) and the requirements of restricted reflexivity, constructivity, and non-explosiveness. The book is based on work carried out within an

