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   Nota di contenuto   Partially observable Markov decision processes for artificial intelligence -- Robust processing of natural language -- Distinction networks -- The problem of signal and symbol integration: A study of cooperative mobile autonomous agent behaviors -- An extension of explanation-based generalization to negation as failure -- Inducing integrity constraints from knowledge bases -- Dynamic structuring of lexical knowledge in a reusability scenario -- Efficient memory-limited graph search -- Quality-based terminological reasoning for concept learning -- Task acquisition with a description logic reasoner -- Parallelizing description logics -- Automated termination proofs with measure functions -- What is a skeptical proof? -- Default entailment -- Actions that make you change your mind -- Reasoning about action with typical and atypical effects -- Reasoning about action and change: Actions with abnormal effects -- Temporal logic based on characteristic functions -- Computational properties of qualitative spatial reasoning: First results -- An empirically validated model for computing spatial relations -- Integrating vision and language: Towards automatic description of human movements.

   Sommario/riassunto   This book constitutes the proceedings of the 19th Annual German Conference on Artificial Intelligence, KI-95, held in Bielefeld in

September 1995. The volume opens with full versions of four invited papers devoted to the topic "From Intelligence Models to Intelligent Systems". The main part of the book consists of 17 refereed full papers carefully relected by the program committee; these papers are organized in sections on knowledge organization and optimization, logic and reasoning, nonmonotonicity, action and change, and spatial reasoning.