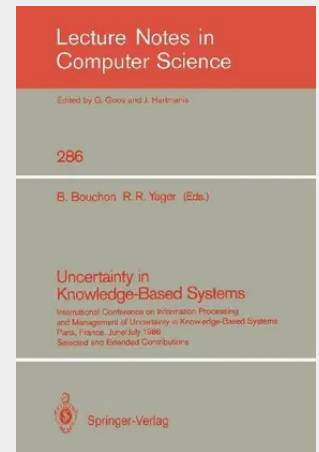


Uncertainty in Knowledge-Based Systems

International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Paris, France, June 30 - July 4, 1986. Selected and Extended Contributions

On the management of information imperfection in knowledge based systems.- Representing knowledge and evidence for decision.- Possibilistic qualification and default rules.- Propagation of uncertainties and inaccuracies in knowledge-based system.- Qualitative Markov networks.- The principle of minimum specificity as a basis for evidential reasoning.- Approximate inference and interval probabilities.- Derivation of some results on monotone capacities by Mobius inversion.- Using probability-density functions in the framework of evidential reasoning.- O-theory: A probabilistic alternative to fuzzy set theory.- Efficient deduction in fuzzy logic.- Fuzziness and expert system generation.- Fuzzy preferences in decision-making.- An axiomatics for fuzzy information.- Knowledge modelling in fuzzy expert systems.- Some recent advances on the possibility measure theory.- Probabilistic inferential engines in expert systems: How should the strength of rules be expressed?.- A framework for assigning probabilities in knowledge-based systems.- Probabilistic reasoning using graphs.- A calculus for belief-intervals representation of uncertainty.- Knowledge base organization in expert systems.- A consistency-recovering system for inference engines.- Credibility of abducible multiple causes of observed effects.- Use of pattern classification in medical decision making.- The use of fuzzy information retrieval techniques in construction of multi-centre knowledge-based systems.- Application of possibility and necessity measures to documentary information retrieval.- The use of fuzzy information retrieval in knowledge-based management of patients' clinical profiles.- Management of uncertainty in a medical expert system.- Consensus and knowledge acquisition.- Knowledge representation model which combines conceptual graphs and fuzziness for machine learning.- An investigation of pictographic form in relation to mechanisms of knowledge acquisition.- HOLMES-I, a prolog-based reason maintenance system for collecting information from multiple experts.- Modeling uncertainty in human perception.- Uncertainty reduction techniques in an expert system for fault tree construction.- Characterizing information measures: Approaching the end of an era.- Characterization of some measures of information theory and the sum form functional equations - Generalized directed divergence - I.- Information gain with preference.- Information entropy and state observation of a dynamical system.

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