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Experience-Aware Service Ranking and Selection -- Performance Evaluation of Algorithms for Soft Evidential Update in Bayesian Networks: First Results -- Optimization of Queries over Interval Probabilistic Data -- Polynomial Time Queries over Inconsistent Databases -- Using OBDDs for Efficient Query Evaluation on Probabilistic Databases -- A Logical Framework to Reinforcement Learning Using Hybrid Probabilistic Logic Programs -- On the Relationship between Hybrid Probabilistic Logic Programs and Stochastic Satisfiability -- Scaling Most Probable World Computations in Probabilistic Logic Programs -- Measuring the Ignorance and Degree of Satisfaction for Answering Queries in Imprecise Probabilistic Logic Programs.

Sommario/riassunto	This book constitutes the refereed proceedings of the Second International Conference on Scalable Uncertainty Management, SUM 2008, held in Naples, Italy, in Oktober 2008. The 27 revised full papers presented together with the extended abstracts of 3 invited talks/tutorials were carefully reviewed and selected from 42 submissions. The papers address artificial intelligence researchers, database researchers, and practitioners to demonstrate theoretical techniques required to manage the uncertainty that arises in large scale real world applications and to cope with large volumes of uncertainty and inconsistency in databases, the Web, the semantic Web, and artificial intelligence in general.