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Decomposability of Relations; 3.2.4 Tuple-Based Formalization; 3.2.5 Possibility-Based Formalization; 3.2.6 Conditional Possibility and Independence; 3.3 Probabilistic Decomposition; 3.3.1 A Simple Example
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4.1.5 Markov Properties of Graphs4.1.6 Markov Equivalence of Graphs; 4.1.7 Graphs and Decompositions; 4.1.8 Markov Networks and Bayesian Networks; 4.2 Evidence Propagation in Graphs; 4.2.1 Propagation in Undirected Trees; 4.2.2 Join Tree Propagation; 4.2.3 Other Evidence Propagation Methods; 5 Computing Projections; 5.1 Databases of Sample Cases; 5.2 Relational and Sum Projections; 5.3 Expectation Maximization; 5.4 Maximum Projections; 5.4.1 A Simple Example; 5.4.2 Computation via the Support; 5.4.3 Computation via the Closure; 5.4.4 Experimental Evaluation; 5.4.5 Limitations
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7.2.4 Probabilistic Evaluation Measures

Sommario/riassunto

Graphical models are of increasing importance in applied statistics, and in particular in data mining. Providing a self-contained introduction and overview to learning relational, probabilistic, and possibilistic networks from data, this second edition of Graphical Models is thoroughly updated to include the latest research in this burgeoning field, including a new chapter on visualization. The text provides graduate students, and researchers with all the necessary background material, including modelling under uncertainty, decomposition of distributions, graphical representation of dis