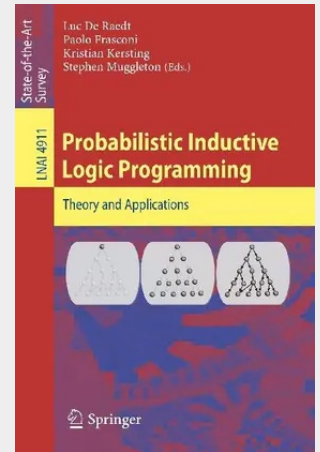


Probabilistic Inductive Logic Programming

Inductive Logic Programming by De Raedt and Kersting. In a second part, it provides a detailed overview of the most important probabilistic logic learning formalisms and systems. We are very pleased and proud that the scientists behind the key probabilistic inductive logic programming systems (also those developed outside the APRIL project) have kindly contributed a chapter providing an overview of their contributions. This includes: relational sequence learning techniques (Kersting et al.), using kernels with logical representations (Frasconi and Passerini), Markov Logic (Domingos et al.), the PRISM system (Sato and Kameya), CLP(BN) (Santos Costa et al.), Bayesian Logic Programs (Kersting and De Raedt), and the Independent Choice Logic (Poole). The third part then provides a detailed account of some show-case applications of probabilistic inductive logic programming, more specifically: in protein fold discovery (Chen et al.), haplotyping (Landwehr and Mielikainen) and systems biology (Fages and Soliman). The final part touches upon some theoretical investigations and the Preface includes chapters on behavioral comparison of probabilistic logic programming representations (Muggleton and Chen) and a model-theoretic expressivity analysis (Jaeger).

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