A Propagator for Stochastic Constraints on Ordered Binary Decision Diagrams

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modeling

probabilistic logic

Stochastic Constraint Optimization

hard constraints

solving

derivatives of OBDDs

[De Raedt et. al. 2007], [Darwiche 2001]

PP

propagation & domain consistency

CP
Probabilistic Network
Propagator for OBDDs

\[ P(\phi | \sigma) \]

Old method: search tree unnecessarily large

New method:
- domain consistent
- search tree smaller
- linear complexity