Informatik-Kolloquium

Rheinisch-Westfälische Technische Hochschule Aachen
Lehrstuhl für Informatik I

RWTH

EINLADUNG

Zeit: Dienstag, 20. November 2001, 12.00 Uhr

Ort: Raum AH I, Ahornstr.55

Referent: Univ.Doz. Dr. Thomas Lukasiewicz, TU Wien

Thema: Probabilistic Reasoning under Inheritance with Overriding

Abstract:

The classical notion of logical entailment in probabilistic logics has often been criticized in the literature for its inferential weakness. In this talk, I describe new notions of entailment for reasoning in probabilistic logics, which are generally stronger than classical logical entailment. Inspired by reference-class reasoning, these new notions of entailment are obtained from classical logical entailment by adding inheritance with overriding. This is done by applying techniques from default reasoning with conditional knowledge bases. I describe the new notions of entailment and discuss their semantic properties. I also describe algorithms for probabilistic reasoning under inheritance with overriding and give results on its computational complexity.

Es laden ein: Die Dozenten der Informatik