

EINLADUNG

Zeit: Donnerstag, 12. Juni 2008, 16:30 Uhr

Ort: AH I, Ahornstr. 55

Referent: Prof. Luc De Raedt
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Titel: An Introduction to Statistical Relational Learning:
A Logical Perspective

Abstract:

Statistical Relational Learning is a new subfield of artificial intelligence lying at the intersection of machine learning, reasoning about uncertainty and relational and logical representations. It aims at developing models that can elegantly deal with objects as well as the relationships that hold amongst them. In this talk, I shall first motivate this research stream using a number of applications and then analyse its state-of-the-art taking a logical perspective. More specifically, I shall explore the relationships between the traditional probabilistic models, which work essentially with a propositional representation, and their upgrades within statistical relational learning and introduce these using a number of examples. The examples used will include the upgrading of Bayesian or Markov networks (towards PRMs, BLPs or MLNs) and those of probabilistic Context Free Grammars and HMMs (towards SLPs, PRISM, ICL and LOHMMs) as well as our recent work on ProbLog and link mining in large biological networks.

Es laden ein: Die Dozenten der Informatik