



Mês de: NOVEMBRO 2013

SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 28 de Novembro (quinta-feira), às 15 horas, na Sala B3-01

On Probabilization of Logic Systems

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(InvestQuest)

Abstract:

The probabilization of a logic system consists of enriching the language (the formulas) and the semantics (the models) with probabilistic features. We address the problem of studying the transference of metaproperties, such as completeness and decidability, to the exogenous probabilization of an abstract logic system. First, we present a more general framework for combination which also includes the probabilization. In this setup, we define a combination mechanism of logics through morphisms and prove sufficient condition to guarantee completeness and decidability. Finally, we motivate the applicability of our technique by providing a weakly complete axiomatization for the probabilization of LTL, the linear temporal logic, with semantics over Markov chains.

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