

Computing Interpolants in Description Logics

Abstract for Invited Talk

Jean Christoph Jung¹

¹*TU Dortmund University, Dortmund, Germany*

Interpolants have a wide range of applications in description logics. For example, they serve as explanations for given complicated entailments, they can be used as explicit definitions for concepts in ontology construction, and they can be regarded as fitting concepts in description logic concept learning. In all these applications, the actual interpolants are needed and hence we need methods to compute them. While the computation problem has been thoroughly studied for description logics enjoying the Craig Interpolation Property, the corresponding theory for logics lacking that property is still underdeveloped. In this talk, I will report on first steps towards a better understanding of the computation of interpolants in such cases.

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 jean.jung@tu-dortmund.de (J. C. Jung)

 <https://logic-in.cs.tu-dortmund.de/personen/profs/jean-christoph-jung/> (J. C. Jung)

 0000-0002-4159-2255 (J. C. Jung)



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