

SOUTENANCE DE THESE

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soutiendra sa thèse de Doctorat

sur le sujet :

Learning representations in multi-relational graphs : algorithms and applications

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Résumé

Internet provides a huge amount of information at hand in such a variety of topics, that now everyone is able to access to any kind of knowledge. Such a big quantity of information could bring a leap forward in many areas if used properly. This way, a crucial challenge of the Artificial Intelligence community has been to gather, organize and make intelligent use of this growing amount of available knowledge.

Fortunately, important efforts have been made in gathering and organizing knowledge for some time now, and a lot of structured information can be found in repositories called Knowledge Bases (KBs).

A main issue with KBs is that they are far from being complete. This thesis proposes several methods to add new links between the existing entities of the KB based on the learning of representations that optimize some defined energy function.

We also propose a novel application to make use of this structured information to generate questions in natural language.