Deep Learning, Knowledge Graphs, and Language

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Abstract:

In the past decade, deep learning has taken a prominent role in the research landscape and some applications, often related to perception or generation, have become mainstream. Already before that, we have seen the uptake of technologies to represent complex interconnected information in the form of a knowledge graph. In this talk, we will explore several ways in which this world of deep learning and the world of rich semantic information interact with language. We will do this with the help of several research challenges, like query answering, incorporating labels into link prediction and inductive predictions, and scaling neural network training.