

TYPE-AUGMENTED RELATION PREDICTION IN KNOWLEDGE GRAPHS

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Introduction

- Knowledge Graph Completion:
 - Predict $(e_h, ?, e_t)$ over a set of candidate relations
 - o (Helen Mirren, ?, Chiswick)
- Prior Knowledge: type information of entities/relations
 - For entities:
 - o Helen Mirren is a person/award_winner/actor/
 - o Chiswick is a location
 - For relations:
 - o (Person, place of birth, Location)

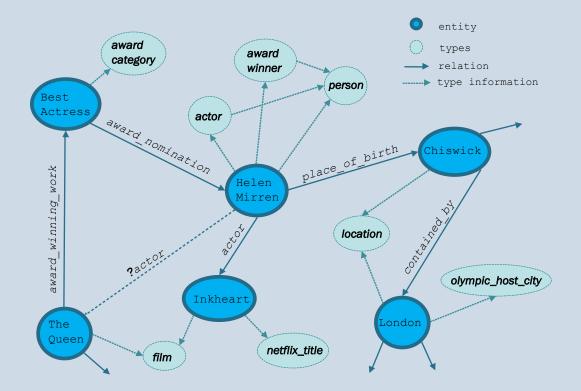
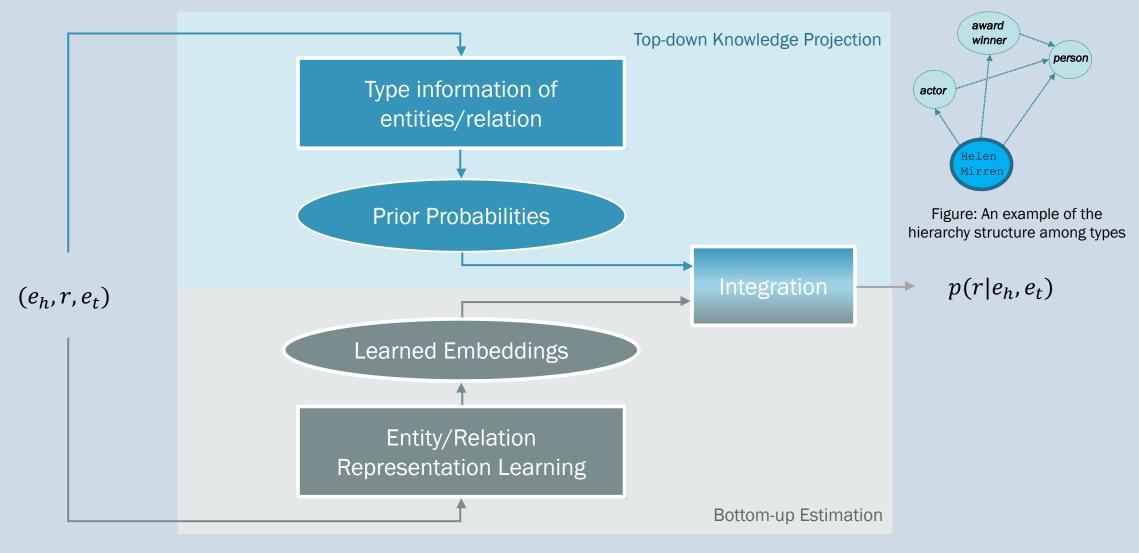


Figure: An example in a knowledge graph(KG)

TaRP: Type-augmented Relation Prediction Model



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Figure: Overview of the propose TaRP model

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Thank You for the Attention!