



Q&A System Research

■ TensorFlow for Solving Multi-level QA

- TransR model (Graph embedding using triplets)
- Eg: USA + Neighbors + Capital => Mexico City, Ottawa, ..., ..

■ Techniques used to improve the model

- Hard Negative Sample Selection
- Multi-step Normalization
- Negative Sampling

■ Appealing points

- Obama + Spouse + Spouse => Obama! (Cyclic relation)
- Model is able to LEARN the type of property!

■ Future Work

- Improve the prediction for non-existing triplets
- Train the model for large data.

TransR: Lin, Yankai, et al. "Learning Entity and Relation Embeddings for Knowledge Graph Completion." AAI. 2015.