

Selected Topics 6

- Represent a simple domain, .e.g, our course structure, by using semantic network.
- Experience with Google's knowledge graph and roughly estimate its size. Point out new potential applications.
- Experience with other knowledge bases. Figure out their representation, reasoning and learning mechanisms.
- Use a distributed representation tool, e.g., word2vec, to compute the vector for some words related to USTC, e.g., USTC, physics, computer science, university, HeFei.
- Understand how TransE works and think about how to improve it.
- Compare different methods for knowledge base construction and discuss their advantages and disadvantages.