

**Entity Linking: A Problem to Extract Corresponding Entity with Knowledge Base**

**Abstract:**

Entity linking is a task to extract query mentions in documents, and then link them to their corresponding entities in a knowledge base. It can improve the performances of knowledge network construction, knowledge fusion, information retrieval, natural language processing, and knowledge base population. In this paper, we introduce the difficulties and applications of entity linking and focus on the main methods to address this issue. At last, we list the knowledge bases, data sets, and the evaluation criterion and some challenges of entity linking.