別紙様式６

research plan or research status sheet
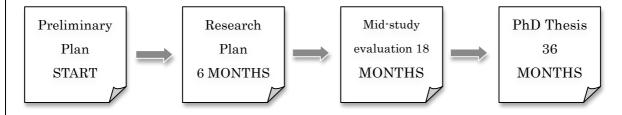## 研究計画又は研究状況

Under enrollment in school, create a "research plan or research status sheet" either in Japanese or English. （在学中の研究計画について、日本語又は英語で「研究計画又は研究状況シート」に作成すること。）（図表を入れた場合も、Ａ４で２～３枚程度とする。）

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Theme(テーマ)	Question Answering over Knowledge graphs		

Abstract

Large-scale knowledge bases like Freebase or DBpedia, consist of a large pool of information that is used to answer questions expressed in natural language. The question answering over knowledge graphs aims at providing the answers to natural language questions by looking up facts that are already stored in a knowledge base. In this work, we focus on simple questions, which require the extraction of a single fact from the knowledge base to be answered. Although this might seem less challenging, recent attempts that have applied end-to-end approaches with complex neural networks have shown that it is still a challenging task especially when asked against a large knowledge base. We propose standard neural network architecture for answering factoid questions over knowledge base. Our approach differs from previous end-to-end approaches by splitting the question answering problem into independent sub-problems namely; detecting entities, linking entities to the knowledge base and classifying the question into one of the relation types in the knowledge base. Our approach yields competitive results with state-of-art approaches that apply complex neural networks on a similar data set.

Work Plan to Thesis

Preliminary Plan START → Research Plan 6 MONTHS → Mid-study evaluation 18 MONTHS → PhD Thesis 36 MONTHS

Courses	2018 Spring	2018 Autumn	2019 Spring	2019 Autumn	2020 Spring	2020 Autumn
1. Topic Description	■					
Complete required credits	■	■				
Conference artical1		■	■			
Journal artical1		■	■			
2. Making more surveys			■	■		
Data collection			■	■		
Apply new algorithms				■	■	
Conference artical2					■	
Journal artical2				■		
3. Preparing Thesis and defense					■	■