Yangkai Du

CONTACT
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EDUCATION
Junior student in Computer Engineering
Zhejiang University/University of Illinois at Urbana-Champaign Institute
Fall 2017 - present
Visiting student in Department of Electrical and Computer Engineering
University of Illinois at Urbana-Champaign
Fall 2019

Highlight courses:
Data Structures; Computer Systems & Programming; Computer System Engineering; Artificial Intelligence; Natural Language Processing; Algorithms and Models of Comp

Cumulative GPA: 3.87 (including only UIUC course)

RESEARCH
Knowledge Graph Construction for Intelligent Maintenance of Power Plant
April 2019 -- Present

Advisor: Hongwei Wang

Focus: The research project intends to extract knowledge and data from large number of non-structured power plant maintenance report and build knowledge graph based on relation between knowledge entities.

Experience: We manually labeled part of maintenance report and did some experiment by applying Bi-LSTM-Lattice model to extract knowledge. Currently we have a relatively good result with applying lattice model on named entity extraction. We proposed a framework to build knowledge graph for power plant and our paper gets published on conference ICEBE 2019, and we are awarded as Best Paper of conference.

PUBLICATION
Knowledge Graph Construction for Intelligent Maintenance of Power Plant
Yangkai Du, Jiayuan Huang, Shuting Tao, Hongwei Wang*. 2019

HONORS AND AWARDS	Best Paper Award ICEBE2019. Awarded to 2 out of all the submissions.	
	Third-class Scholarship of Zhejiang University	2019
	Best Summer Research Projects/Internship of Zhejiang University/University of Illinois at Urbana-Champaign Institute	
	Third-class Scholarship of ZJUI Institute	2018

SKILLS AND LANGUAGE

- Skills: Python, C++, Matlab, experience with TensorFlow, PyTorch, Git
- Language: Chinese, English