

ZHANG Ying

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EDUCATION

Tokyo Institute of Technology, Tokyo, Japan

Sep 2017 - Sep 2019

Master of Engineering, Information and Communications Engineering

- Okumura and Takamura Lab

Chongqing University, Chongqing, China

Sep 2013 - Jun 2017

Bachelor of Management Studies, Information Management and Information System

- GPA : 3.4 / 4.0

RESEARCH EXPERIENCE

Automated essay scoring by lexical chain

Jun 2018 -

Essay writing test is widely used to assess writer's level of writing quality, like *TOFEL* test, *Chinese Gaokao* test, where fairness essay evaluation method is required. In this research, I try to investigate how lexical chain can be employed on automatic essay score/evaluation. I propose several features that influence the score of essay, and use lexical chain to extract these important features. After generating features, regression is used to predict essay score. Experiments on two labeled essay datasets prove the effectiveness of this model.

Reduction of repeating tokens generated by Encoder-Decoder model

Sep 2017 -

Encoder-decoder model is a widely used model in Natural language processing area which can solve text generation tasks like Machine translation, chatbot, text summarization. However, up to now, many problems of this model are still unsolved. In this research, I propose a new loss function to solve a common problem(redundant repeating tokens) of that. Experiments on a labeled *Machine Translation* dataset show the effectiveness of this loss function.

INTERNSHIP EXPERIENCE

Xiangyu Group

Jul 2015 - Aug 2015

Information Department

Xiamen, China

- Designed a more convenient interface for customer-supplier information inputting function based on Oracle ERP.
- Used SQL language to edit items and fix bugs of database.

SKILLS

- Programming Languages: python(3.5 years), php(1 year), sql(1 year), c(0.5 year), java(0.5 year)
- Languages: Chinese(Native) , English (TOEFL: 89), Japanese (N2: 137)
- Softwares: SPSS, Matlab