

Sun, Weiwei

Address: No. 72 Binhai Highway, Jimo District, Qingdao, China
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EDUCATION BACKGOURND

Shandong University, Computer Science and Technology		<i>9/2017-7/2021</i>
● Major	Data Science and Big Data Technology, GPA: 3.6/4.0	
● Main Courses	Higher Mathematics, Machine Learning, Algorithm design, Computer Vision	
● Awards	✧ National Second Prize, CUMCM	<i>9/2019</i>
	✧ First prize, College Software Innovation Contest	<i>10/2019</i>
	✧ Second prize, Hackathon of SDU	<i>11/2019</i>
	✧ College Academic Scholarship	<i>2018, 2019</i>

RESEARCH EXPERIENCE

Domain Adaptation for Conversational Knowledge Selection		<i>2/2020-5/2020</i>
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Position: Research Assistant **IR Lab at Shandong University**

- We observe similarities between KS process in KGC and Response Selection. An effective transfer learning mechanism will enhance the Dialogue Generation with Retrieval-based Dialog System.
- Propose a Dual Domain Interaction algorithm to mitigate the negative influence of domain shift and task discrepancy, learn transferable feature representations in multiple domains.

Knowledge Aware Conversation Generation		<i>9/2019-1/2020</i>
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Position: Research Assistant **IR Lab at Shandong University**

- Previous studies on Knowledge-Grounded Conversation have two limitations: (1) they do not model knowledge tracking and shifting and their interaction explicitly, (2) MLE only relies on demonstrated conversations to train the model, which cannot handle the many-to-many mapping phenomenon in conversations well.
- Propose a Dual Knowledge Interaction Network (DukeNet) to address the first issue, and Dual Knowledge Interaction Learning (DukeL) to address the second issue.
- Experimental results on two public KGC benchmarks show that DukeNet significantly outperforms state-of-the-art methods in terms of both automatic and human evaluations.

Multi-modal AI Music Generation		<i>7/2019-8/2019</i>
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Position: Algorithm Design **DeeCamp, Sinovation Ventures**

- Use ResNet-places365 to analysis sentiment tags of short video and generate tag based multi-track real-time by Music Transformer combined with Performance-RNN.
- Propose a MIDI correction algorithms and a chord matching algorithm based on music theory. Build a music composing process.
- Develop apps with excellent user experience. Deploy deep learning models on the server and achieve high concurrent performance.

ACTIVITIES

● Short-Term Visiting Program	Oxford University
Certificate of Attendance, Best mv reward	<i>7/2018-8/2018</i>
● DeeCamp	Kuai Shou, Sinovation Ventures
Multi-modal AI Music Generation, Excellent presentation	<i>7/2019-8/2019</i>

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| ● CCF Certified Software Professional
Grade 400, National Ranking 2/ 11395 | China Computer Federation
12/2019 |
| ● Software Innovation Contest, Hackathon
AIoT- Express Solution, QRMaster | Shandong University
11/2019 |
| ● Tweet Sentiment Extraction & Plant Pathology
Leaderboard 6% & 8% | Kaggle
6/2020 |

ACADEMIC LITERATURE

- ✧ **Domain Adaptation for Conversational Knowledge Selection**
under preparation
- ✧ **DukeNet: A Dual Knowledge Interaction Network for Knowledge-Grounded Conversation**
SIGIR 2020
- ✧ **Latent Semantic Transform in Sentiment Analysis**
Project paper

INTERNSHIP EXPERIENCE

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| CDP Development | 1/2020-2/2020 |
| Position: Algorithm Engineer | Inspur Co., Ltd. |
| ● Research on the license classification algorithm and deployment of efficient license classification module. Maintain and optimize CDP machine learning modules. Research on Policy Semantic Analysis Algorithm. | |

OTHER INFORMATION

INTREST	Natural language processing, Machine learning
SKILLS	python(CSP400), pytorch, tensorflow, Pycharm, MATLAB
HOBBIES	Badminton(College Team), Piano(level 10, CMA)