Zhengcong Fei

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EDUCATION

Institute of Computing Technology, Chinese Academy of Sciences   *September 2019 - present*
M.S. Candidate in Computer Application Technology

Nanjing University of Science and Technology   *September 2015 - June 2019*
B.S. in Electronic information engineering
GPA: 3.75/4.00   Rank: 1/165

HONORS / AWARDS

China National Scholarship, ICT	*2020*
China National Scholarship, NJUST	*2018*
Outstanding Student Award, NJUST	*2018*
Mathematical Contest in Modeling, COMAP, Meritorious Winner	*2018*
Contemporary Undergraduate Mathematical Contest in Modeling, First Prize	*2018*
National Military Mathematical Modeling League, Second Prize	*2017*
Suzhou Industrial Park Scholarship	*2017*
Chinese Mathematics Competitions, First Prize	*2016*

WORKING EXPERIENCE

WeChat AI, Pattern Recognition Center   *November 2020 - present*
Internship, advised by Jinchao Zhang
Multimodal dialogue Modeling

- Incorporating expression images into dialogue
- Utterance-level emotion classification
- Dataset construction and DSTC10 challenge proposal

Video generation

- generating text-control video with VQ-VAE

Sinovation Ventures, Artificial Intelligence Engineering Institute   *July 2020 - October 2020*
Internship, advised by Yan Song and Qiufan Chen
Intelligent Writing System

- GPT-2 based sequence generation
- Sentence-level retrieval and style transfer

PUBLICATIONS

Semi-Autoregressive Image Captioning
Xu Yan, Zhengcong Fei, Zekang Li, Shuhui Wang, Qingming Huang, Qi Tian
ACM Multimedia (MM) 2021, CCF-A, under review

Uncertainty-Aware Image Captioning
Xu Yan, Zhengcong Fei, Zekang Li, Tianhai Feng, Shuhui Wang, Qingming Huang, Qi Tian
ACM Multimedia (MM) 2021, CCF-A, under review

DVCFlow: Modeling Multimodal Information Flow Towards Human-like Dense Video Captioning
Xu Yan, Zekang Li, Zhengcong Fei, Shuhui Wang, Qingming Huang, Qi Tian
ACM Multimedia (MM) 2021, CCF-A, under review

We Want Vivid Conversations: Incorporating Internet Meme into Open-domain Dialogue
Zhengcong Fei, Zekang Li, Jinchao Zhang, Yang Feng, Jie Zhou

Empirical Methods in Natural Language Processing (EMNLP) 2021, CCF-B, under review

Conversionsa Are not Flat: Modeling the Dynamic Information Flow between Dialogue Utterances
Zekang Li, Jinchao Zhang, Zhengcong Fei, Yang Feng, Jie Zhou
Association for Computational Linguistics (ACL) 2021, CCF-A

Addressing Inquiries about History: An Efficient and Practical Framework for Evaluating Open-domain Chatbot Consistency
Zekang Li, Jinchao Zhang, Zhengcong Fei, Yang Feng, Jie Zhou
Association for Computational Linguistics (ACL Findings) 2021, CCF-A

Partially Non-Autoregressive Image Captioning
Zhengcong Fei
Association for Advancement of Artificial Intelligence (AAAI) 2021, CCF-A

Memory-Augumented Image Captioning
Zhengcong Fei
Association for Advancement of Artificial Intelligence (AAAI) 2021, CCF-A

Retrieve and Revise: Improving Peptide Identification with Similar Mass Spectra
Zhengcong Fei
Association for Advancement of Artificial Intelligence (AAAI) 2021, CCF-A

Iterative Back Modification for Faster Image Captioning
Zhengcong Fei
ACM Multimedia (MM) 2020, CCF-A

Improving Tandem Mass Spectra Analysis with Hierarchical Learning
Zhengcong Fei
International Joint Conference on Artificial Intelligence (IJCAI) 2020, CCF-A

Actor-Critic Sequence Generation for Relative Difference Captioning (Oral)
Zhengcong Fei
ACM International Conference on Multimedia Retrieval (ICMR) 2020, CCF-B

Novel Peptide Sequencing with Deep Reinforcement Learning (Oral)
Zhengcong Fei
IEEE International Conference on Multimedia and Expo (ICME) 2020, CCF-B

Fast Image Caption Generation with Position Alignment (Oral)
Zhengcong Fei
AAAI 2020 Workshop on Artificial Intelligence of Things

Better Understanding Hierarchical Visual Relationship for Image Caption
Zhengcong Fei
NeurIPS 2019 Workshop on New In ML

pDeep3: Towards More Accurate Spectrum Prediction with Fast Few-Shot Learning
Wen-Feng Zeng, Ching Tarn, Zhengcong Fei, Si-Min He
Analytical Chemistry (IF = 6.78)

GameTag: A New Sequence Tag Generation Algorithm Based on Cooperative Game Theory
Zhengcong Fei, Kaifei Wang, Hao Chi
Proteomics (IF = 3.25)

CHALLENGES

The 1st prize in the national youth innovation and entrepreneurship, CAAI
The 1st prize in the artificial intelligence application innovation competition, Huawei Cloud
The 1st place in the innovation track, Deecamp 2020, Sinovation Ventures

SKILLS

- Programming language: proficient in C++ and python, having knowledge of shell and matlab
- Tools: Familiar with Pytorch and Latex
- English level: CET-4: 571, CET-6: 551

SERVICES

- Reviewer: NeurIPS 2021, ICCV 2021, ICML 2021, CVPR 2021, IJCAI 2021, NeurIPS 2020
- Volunteer: Winter Olympics 2022