

Zhengcong Fei

Curriculum Vitae

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📄 <https://feizc.github.io/resume/>

Education

- 2019–Now **Institute of Computing Technology, Chinese Academy of Sciences**, Beijing.
M.D. Candidate in Computer Application Technology
Advised by Hao Chi
- 2015–2019 **EE, Nanjing University of Science and Technology**, Nanjing.
Bachelor of Electronic Information Engineering
GPA: 3.75/4 Rank: 1/165

Research Interests

- Language and Vision
- Reinforcement Learning

Experience

- 2020 Sci-fi Novel Generation
- July-Dec ○ sequence generation ○ BERT-based retrieval
advised by Yan Song
- Sinovation Ventures**
- 2019 Search Engine for Mass Spectra
- Mar-Jun ○ DFS search candidates ○ inverted index ○ BM25
ICT, CAS
advised by Hao Chi
- 2018 Multi-Scale Objective Detection
- Apr-Oct ○ feature pyramid ○ one-stage detection as regression
AAIS, Peking University
advised by Jue Zhang

Publications

- 9 Partial Non-Autoregressive Image Captioning
Zhengcong Fei
AAAI 2021 under review
- 8 Iterative Back Modification for Faster Image Captioning
Zhengcong Fei
ACM MM 2020
- 7 Improving Tandem Mass Spectra Analysis with Hierarchical Learning

Zhengcong Fei

IJCAI 2020

- 6 Actor-Critic Sequence Generation for Relative Difference Captioning

Zhengcong Fei

ICMR 2020 (Oral Presentation)

- 5 Novel Peptide Sequencing with Deep Reinforcement Learning

Zhengcong Fei

ICME 2020 (Oral Presentation)

- 4 Fast Image Caption Generation with Position Alignment

Zhengcong Fei

AAAI 2020 Workshop on Artificial Intelligence of Things (Oral Presentation)

- 3 Better Understanding Hierarchical Visual Relationship for Image Caption

Zhengcong Fei

NeurIPS 2019 Workshop on New In ML

- 2 pDeep3: Towards More Accurate Spectrum Prediction with Fast Few-Shot Learning

Wen-Feng Zeng, Ching Tarn, Zhengcong Fei, Si-Min He

Analytical Chemistry under review

- 1 GameTag: A New Sequence Tag Generation Algorithm Based on Cooperative Game Theory

Zhengcong Fei, Kaifei Wang, Hao Chi

Proteomics

Challenges

- 2020 The **1st places** in the innovation track, Deecamp 2020

July Sinovation Ventures

this project is about sci-fic novel generation

- 2020 The **1st places** in the artificial intelligence application innovation competition

Sep Huawei Cloud

this project is about AI assisted writing

Honors & Awards

- 2018 China National Scholarship

- 2018 The Mathematical/Interdisciplinary Contest in Modeling (MCM/ICM), **Meritorious Winner**

- 2018 China Undergraduate Mathematical Contest in Modeling, **First Prize**

- 2018 MathorCup Mathematical Contest, **First Prize**

- 2017 Suzhou Industrial Park Scholarship

- 2017 National Military Mathematical Modeling League, **Second Prize**

- 2017 Certification Cup Mathematical Contest, **First Prize**

- 2016 Mathematics Competition of Chinese College Students, **First Prize**

2016 Chinese Mathematics Competitions (CMC), **First Prize**

Skills

Languages C++; Python
Tools PyTorch; Latex
CET-4 571
CET-6 551

Service

Conference [NeurIPS 2020](#); [AAAI 2021](#)
Reviewing