Junjie Chen

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Summary

Passionate AI/ML engineer with a strong background in deep learning, computer vision, and natural language processing. Skilled in Python, TensorFlow, PyTorch, and various ML libraries. Excellent problem-solving, research, and collaboration abilities. Seeking a challenging role to develop cutting-edge AI solutions.

Education

The Univeersity of Tokyo — Tokyo, Japan
Ph.D. in Computer Science — *Oct. 2021 – Now*

The Univeersity of Tokyo — Tokyo, Japan
M.S. in Computer Science — *Oct. 2019 – Sep. 2021*

Northeastern Univeristy — Shenyang, China
B.S. in Software Engineering — *Sep. 2015 – Jun. 2019*

Awards

DC2 (monthly stipend 200,000 JPY + yearly grant 900,000 JPY) from *Japan Society for the Promotion of Science* (2023 - 2025)

IST-RA (monthly stipend 60,000 JPY) from *The University of Tokyo* (2022 - 2023)

Publications

Junjie Chen, Xiangheng He, Danushka Bollegala, and Yusuke Miyao. Constituents are Frequent Word Sequences among Sentences with Equivalent Predicate-Argument Structures: Unsupervised Constituency Parsing by Span Matching. *To be appear in findings of the Association for Computational Linguistics: ACL 2024*

Junjie Chen, Xiangheng He, and Yusuke Miyao. Language Model Based Unsupervised Dependency Parsing with Conditional Mutual Information and Grammatical Constraints. *In proceedings of the 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics*

Xiangheng He, **Junjie Chen** and Bjorn W. Schuller. Task Selection and Assignment for Multi-modal Multi-task Dialogue Act Classification with Non-stationary Multi-armed Bandits. *In proceedings of 2024 International Conference on Acoustics, Speech, and Signal Processing*

Junjie Chen. Syntactic-Semantic Dependency Correlation in Semantic Role Labeling: a Shift in Semantic Label Distributions. *Journal of Natural Language Processing, 29(3)*

Junjie Chen, Xiangheng He, and Yusuke Miyao. Modeling Syntactic-Semantic Dependency Correlations in Semantic Role Labeling Using Mixture Models. *In Proceedings of 60th Annual Meeting of the Association for Computational Linguistics*

Xiangheng He, **Junjie Chen**, Georgios Rizos and Björn Schuller. An Improved StarGAN for Emotional Voice Conversion: Enhancing Voice Quality and Data Augmentation. *In proceedings of Interspeech 2021*

Zihong Liang, **Junjie Chen**, Zhaopeng Xu, Yuyang Chen, Tianyong Hao: A Pattern-Based Method for Medical Entity Recognition From Chinese Diagnostic Imaging Text. *Frontiers Artif. Intell. 2: 1 (2019)*

Xieling Chen, Juntao Hao, **Junjie Chen**, Songshou Hua and Tianyong Hao. A Bibliometric Analysis of the Research Status of the Technology Enhanced Language Learning. *SETE@ICWL (2018)*.

Projects

Image Captioning System — Jan 2023 – Present
Deep Learning Project — *Python, TensorFlow, OpenCV*

- Developed an end-to-end system for generating descriptive captions for images
- Utilized CNN and LSTM models for image feature extraction and caption generation
- Achieved state-of-the-art performance on the COCO dataset

Sentiment Analysis API Aug 2022 – Dec 2022
Natural Language Processing *Python, Flask, NLTK, Hugging Face*

- Built a RESTful API for sentiment analysis of text data
- Implemented pre-trained transformer models using Hugging Face
- Deployed the API on a cloud platform for easy integration

Experience

AI Research Intern June 2022 – Aug 2022
DeepMind *London, UK*

- Conducted research on reinforcement learning algorithms for robotics
- Implemented and evaluated deep RL models using PyTorch and RLlib
- Presented findings at weekly research meetings

Machine Learning Engineer Jan 2021 – May 2022
Acme AI Solutions *San Francisco, CA*

- Developed and deployed machine learning models for various industries
- Optimized model performance and ensured data quality
- Collaborated with cross-functional teams to deliver AI solutions

Certifications

- AWS Certified Machine Learning - Specialty
- TensorFlow Developer Certificate