Weiping Zhang

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EDUCATION

University of Southern California 08/2021 – 06/2023
- MS major: Electrical and Computer Engineering (Machine Learning and Data Science)

Beijing Normal University 09/2017 – 06/2021
- BS major: Science and Technology of Electronic Information GPA: 87.3/100
- Thesis title: *AI based Classroom Teaching Audio Analysis System Design*

INTERNSHIP EXPERIENCE

Platform and Content Group, Tencent Corporation

Search Algorithms Intern 10/2020 – 01/2021
- Ranked search results of Tencent Search with Learning to Rank(LightGBM).
- Classified search results of Tencent News with DeepText model from Tencent.
- Designed weights extraction models for features mining on Chinese ranked text data.

Institute of Automation, Chinese Academy of Sciences

Courses Development Intern / Self-Media Editor Intern 04/2020 – 09/2020
- Designed the curriculum "2D Computer Vision", including contents of different topics and related experiments.
- Prompted introducing videos about frontier technology in AI fields and instructing videos about the basic knowledge of Machine Learning and Deep Learning.

RESEARCH EXPERIENCE

Refined Sparse Representation Based Similarity Category Image Retrieval 03/2021 – 10/2021
Core group member. Advisor: Hao Wu
- Collected and sorted multi-source image data to build test and verification databases
- Contrasted cross mutual sparse coding model with other features in the similarity category image retrieval.

AI Based Class Teaching Evaluation System 06/2020 – 04/2021
Leader. Advisor: Junqi Guo
- Designed class teaching audio analysis system to evaluate:
  i. Teaching content composition with modified TF-IDF algorithms.
  ii. Class discourse classification and organizational structure with TextRCNN.

Social Media Research on Propagation Law and Control Strategy of Public Emergencies 09/2019 – 06/2020
Core group member. Advisor: Dan Yu
- Designed the experimental compound algorithm with collaborative filtering and text matching.
- Built the behavior experiment system to generate information flow and record testers' behaviors.

PUBLICATION

- Hao Wu, Xueying Liu, ***Weiping Zhang***, et al. "Refined Sparse Representation Based Similarity Category Image Retrieval" *Journal of Visual Communication and Image Representation.* Under Review.
- Yuqiao Yan, ***Weiping Zhang***, et al. "Personalized information recommendation simulation system based on compound recommendation algorithm" *2019 2nd International Conference on Mechanical, Electrical and Material Application.*

PROFESSIONAL SKILLS
- Python / C++ / MATLAB / PyTorch / SQL