Zhiwei **Yuan**

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ZhiweiYuan CV

Bio. I am currently a 2th-year Master Student at College of Software, Southeast University, China, working with Songlin Du on artificial intelligence technology and deep-learning-based 3D human pose estimation.

Research interests. My Master research work covers a range of issues : **human pose estimation, data augmentation, feature fusion, joint optimization and intelligent optimization algorithm**. Currently, I am interested in varies approaches to deep learning (CNN, GCN, Transformer, etc.) and their applications to computer vision (especially, 3D human pose estimation).

Education

Sep 2020 – Jun 2023 (expected)
Master Candidate in Artificial Intelligence, *Southeast University* (SEU), Nanjing
Key Course(score) : Machine Learning (95), Algorithm Analysis and Design (94) *et al.*
GPA : 90.88/100 | **Rank** : 11/189 *Supervisor : Dr. Songlin Du*

Sep 2016 –Jun 2020
Bachelor of Engineering, Major in Automation, *Northeastern University* (NEU), Shenyang
Course(score) : Modern Optimization Algorithms (99), Professional foreign English (93) *et al.*
Thesis : Prediction method of silicon content in molten iron of blast furnace based on improved ELM.
GPA : 3.5901/5.0 *Advisor :Prof. Xianpeng Wang*

Publications

- **Zhiwei Yuan**, Songlin Du, "Jointly Optimizing Evolutionary Data Augmentation and Parallel Local-Global Feature Fusion Network for 3D Human Pose Estimation," in preparation.
- **Zhiwei Yuan**, Yaping Yan, Songlin Du, and Takeshi Ikenaga, "JointFusionNet : Parallel learning human structural local and global joint features for 3D human pose estimation," submitted to *ICANN 2022*.
- **Zhiwei Yuan**, Songlin Du, "JointPose : Jointly Optimizing Evolutionary Data Augmentation and Prediction Neural Network for 3D Human Pose Estimation," *Artificial Neural Networks and Machine Learning – ICANN 2021.* Lecture Notes in Computer Science(), vol 12893. Springer, Cham. (**CCF C, SCI**) *https ://doi.org/10.1007/978-3-030-86365-4_30*
- Songlin Du,**Zhiwei Yuan**.(Supervisor first inventor) 3D human pose estimation method based on joint data augmentation and network training model(CN113361570A). Patent for invention. *http ://epub.cnipa.gov.cn/patent/CN113361570A*
- Songlin Du,**Zhiwei Yuan**.(Supervisor first inventor) A 3d human pose estimation method based on local and global features fusion. Patent for invention. Filed, Patent number : 202210142459.X.
- Lincan Li, Tong Jia, **Zhiwei Yuan**, Haofeng Chen. Detection method and system for vulnerable plaques in CARDIOVASCULAR OCT imaging based on deep learning(CN108961229A).Patent for invention. *http ://epub.cnipa.gov.cn/patent/CN108961229A*

Honors & Awards

Fall 2021 National Scholarship for Graduate Students of Southeast University (¥20,000).
Spring 2022 Outstanding graduate student candidate of Jiangsu Province (1/189).
Spring 2021 The Scholarship of Lenovo Institute (¥9,000).
2020 - 2021 Scholarship and Merit Student of Southeast University (1st-class , 1/189).
2020 - 2021 National Graduate Mathematical Contest in Modeling (3st-class , 2 times).
Fall 2018 National College Students Mathematical Contest in Modeling of Liaoning Province (1st-class , <10%).
2017 - 2019 Scholarship of Northeastern University (<30%, 2 times).

Others

Programming Skills : **Python**, C/C++, $LaTeX$, Matlab, Pytorch.
Interests : Sports, Board Game, Photography, Movies, etc.
Self-evaluation : Have artificial intelligence discipline foundation, familiar with neural network basic structure and certain code ability. Enthusiastic, proactive and dependable to scientific research. Self-encouraging, and enjoy the fun of implementing research ideas.

(last update : 23 Apr. 2022)