Chen, Xianhui

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Education

South China Normal University (SCNU) *09/2018~07/2022*
Bachelor of Engineering in Computer Science and Technology (GPA: 3.71/5.0, top 15%)

New York University (NYU) *09/2022~06/2024*
Master's in Computer Engineering

Research Projects

Research on sleep apnea detection based on ECG signals *06/2021~11/2022*
<u>*Supervisor: Prof. Xiaomao Fan (SCNU)*</u>
- Literature investigation
- Experiment design and implementation
- Writing research papers
* All the work performed independently

Publications

[1] **Xianhui Chen**, Ying Chen, Wenjun Ma, Xiaomao Fan*, Ye Li. Toward Sleep Apnea Detection with Lightweight Multi-scaled Fusion Network, *Knowledge-Based Systems*, 2022. DOI: 10.1016/j.knosys.2022.108783. (IF: 8.038).

[2] **Xianhui Chen**, Ying Chen, Wenjun Ma, Xiaomao Fan*, Ye Li. SE-MSCNN: A Lightweight Multi-scaled Fusion Network for Sleep Apnea Detection Using Single-Lead ECG Signals, *IEEE International Conference on Bioinformatics and Biomedicine 2021.* IEEE, 2021: pp1276-1280 (Oral presentation, Acceptance rate: 20.0%)

[3] Junyang Chen, Yidan Dai, **Xianhui Chen**, Yingshan Shen, Yan Luximon, Hailiang Wang, Yuxin He, Wenjun Ma*, Xiaomao Fan*. StAGN: Spatial-Temporal Adaptive Graph Network via Constrastive Learning for Sleep Stage Classification, *SIAM International Conference on Data Mining (SDM23).*

[4] **Xianhui Chen**, Wenjun Ma, Weidong Gao, Xiaomao Fan*. BAFNet: Bottleneck attention based fusion network for sleep apnea detection, *IEEE Journal of Biomedical and Health Informatics* (Submitted, IF: 7.021)

Awards

Scholarship of NYU	*08/2022*
Dean's Scholarship of SCNU	*06/2022*
Best Paper of Award (Thesis)	*06/2022*
Second Prize, Student Innovation of SCNU	*04/2022*
Second Prize, Scholarship for Outstanding Student	*03/2022*
Excellent Award, China Undergraduate Mathematical Contest in Modeling	*12/2020*
Second Prize,"Taidi Cup" Data Analysis Professional Skills Competition	*12/2020*

Skills

Computer: Python, C++ and Python packages including Pytorch, Keras etc.