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Education：

Northeastern University& University of Dundee   **Undergraduate Course***2022 - 2026*

Publications：

Multiscale feature enhanced gating network for atrial fibrillation detection

Xidong Wu, Mingke Yan, Renqiao Wang, Liping Xie[*]

Computer Methods and Programs in Biomedicine (IF 4.9 TOP)

MSCGN: Multiscale complementary gating network for time series classification

Xidong Wu, MingKe Yan, Haotian Tang, Dongchen Wu, Liping Xie[*]

Biomedical Signal Processing and Control (IF 4.9) *Under review*

Adaptive Aliasing Denoising Module for Noise-Robust Time Series Classification

Xidong Wu, Haotian Tang, Bojun Jiang, Liping Xie[*]

Pattern Recognition (IF 7.5 TOP) *Under review*

OG-SAM: Enhancing Multi-Organ Segmentation with Organogenesis-Based Adaptive Modeling

Xidong Wu, Hao Chen, Zhuoyuan Li, Chao Li[*]

International Conference on Medical Image Computing and Computer Assisted Intervention(MICCAI) *Under review*

IrregularConv-ECG: A Domain-Generalized Approach Combining Asymmetric Convolution and Dynamic Data Augmentation for Wearable ECG Analysis

Hanyu Cui[#], **Xidong Wu[#]**, Liping Xie[*]

Computer Methods and Programs in Biomedicine (IF 4.9 TOP) *Under review*

Personalized low rank factor arrhythmia detection based on irregular perception

Bojun Jiang[#], **Xidong Wu[#]**, Liping Xie[*]

Engineering Applications of Artificial Intelligence (IF 7.5 TOP) *Under review*

PhysioSAug: A novel data augmentation method based on diffusion probabilistic model for disease classification using physiological signals

Haotian Tang, Hanyu Cui, **Xidong Wu**, Zhuoyuan Li, Liping Xie[*]

Engineering Applications of Artificial Intelligence (IF 7.5 TOP) *Under review*

Element-wise Product Enhanced Lightweight Model for Efficient ECG Arrhythmia Detection on Embedded Devices

MingKe Yan, Haotian Tang, **Xidong Wu**, Hongkai Lai, Yang Zhang, Hanyu Cui, Liping Xie[*]

Computers and Electrical Engineering (IF 4.1) *Under review*

Predicting the mechanism of pyramidal neurons in synaptic integration by high-frequency electrical stimulation and patch clamp

Xidong Wu

The International Conference on Modern Medicine and Global Health (ICMMGH)

Professional skills：

TensorFlow, **Keras**, **Pytorch**, **Python**, **Overleaf**