

Certification of Technology Application

This is to certify that:

In the development of our "**Intelligent Diagnostic System for Dynamic ECG Analysis**," our company has adopted the following academic research outcomes:

[1] Xingyao Wang, Hongxiang Gao, Caiyun Ma, Tingting Zhu, Feng Yang, Chengyu Liu, Fuhua Zhu, "**Uncertainty-Inspired Multi-Task Learning in Arbitrary Scenarios of ECG Monitoring**," *IEEE Journal of Biomedical and Health Informatics*, vol. 29, no. 6, pp. 4046-4058, June 2025, doi: 10.1109/JBHI.2025.3545927

The research outcomes have been integrated into our dynamic ECG intelligent diagnostic system. The system has been deployed in clinical settings to assist cardiologist in early screening and diagnosis of abnormal heartbeats and arrhythmia. Clinical validation has demonstrated that the application of this system significantly improves diagnostic accuracy and workflow efficiency, providing effective technical support for early detection and treatment of abnormal electrophysiology.

The technology transfer and commercialization value amounts to approximately RMB 100,000.

This certificate is hereby issued for verification purposes.

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Authorized Signature:

Official Seal:

Date: 2025.12.26

