

Manuscript ID: sensors-3053071

Title: Development and Validation of a Real-Time Service Model for Noise Removal and Arrhythmia Classification Using Electro-cardiogram Signals

This manuscript reported a deep learning real-time service model that utilizes Generative Adversarial Networks (GANs) for effective noise removal and ResNet for precise arrhythmia classification from wearable ECG data. Overall, the paper is well written and contains interesting and revealing content with clear proof; also, they utilized labeled ECG data, filters for removing ECG artifacts, used deep classifier & transfer learning for subtype classification to make a service model for integrated operation. I do not have any comments and I would like to recommend this manuscript for acceptance and further processing for publication.