**Appendix**

1. **Implementation Details**

This study proposes a Multi-Source Domain Adaptive Feature Fusion (MDFF) framework for robust Human Activity Recognition via wearable devices. The complete implementation is publicly available to facilitate reproducibility and further research.

1. **Code Repository**

The source code, implemented algorithms, and experimental configurations are available at:

GitHub Repository: https://github.com/Mr-81-manba/Domain-Generalization.git

1. **Benchmark Datasets**

The experiments were conducted using three publicly available activity recognition datasets:

Daily and Sports Activities Dataset

UCI Archive: https://archive.ics.uci.edu/dataset/256/daily+and+sports+activities

USC-HAD (Human Activity Dataset)

Official Repository: https://sipi.usc.edu/had/

PAMAP2 Physical Activity Monitoring Dataset

UCI Archive:

https://archive.ics.uci.edu/dataset/231/pamap2+physical+activity+monitoring

1. **Implemented Algorithms**

The framework includes implementations of six state-of-the-art domain adaptation approaches:

1. Empirical Risk Minimization (ERM)
2. Domain-Adversarial Neural Networks (DANN)
3. Representation Self-Challenging (RSC)
4. AND-mask
5. Domain-Invariant Feature Extraction (DIFEX)
6. Our proposed Multi-Source Domain Feature Fusion (MDFF)
7. **Usage Guide**

The main training script train.py can be executed after modifying the relevant parameters in the configuration files located in the scripts/ directory.