



Machine Learning for Human Activity Recognition

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Deadline for manuscript
submissions:

31 January 2024

Message from the Guest Editor

Human activity recognition (HAR) refers to the detection and recognition of human gestures and activities such as walking, falling, and drawing a circle in indoor and outdoor environments. Wearable sensors (e.g., gyroscope and accelerometer), cameras (e.g., still image and video), and radio wireless signals (e.g., WiFi signals) are some methods for collecting data and sensing the environment.

Machine learning and deep learning are promising approaches for HAR. Generally, these approaches have a large number of trainable parameters, require tremendous quantities of labelled training data, need major hyperparameter tuning, and are resource-hungry in training and inference. These can cause difficulties in training and inference for HAR on edge and resource-limited devices. Pruning, tiny ML models by design, augmentation, and novel representation learning techniques can potentially overcome these challenges.





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Message from the Editor-in-Chief

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