



## Machine Learning for Human Activity Recognition

Guest Editor:

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### 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

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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