

Special Issue

Deep Learning for Human Activity Recognition: Advances and Applications

Message from the Guest Editors

This Special Issue seeks high-quality contributions that push the methodological and application boundaries of HAR. Topics of interest include (but are not limited to) novel network architectures (e.g., graph neural networks, transformer-based models); efficient multimodal fusion of visual, inertial, and ambient-sensor data; self-supervised and few-shot learning strategies for data-scarce scenarios; on-device inference and model compression for edge deployment; privacy-preserving and federated learning frameworks; and trustworthy AI techniques addressing interpretability, fairness, and robustness. Beyond methodological innovations, we particularly welcome application-oriented studies in healthcare monitoring, sports analytics, smart environments, human-robot interaction, autonomous driving, and security. Submissions should present solid experimental validation, and open datasets or code where possible, and clearly articulate how the work advances the state of the art and broadens the practical impact of HAR.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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