Special Issue

Advanced Wearable Sensor for Human Movement Monitoring

Message from the Guest Editor

Wearable sensors for human-movement monitoring have a broad range of applications, including healthcare, wellbeing monitoring, rehabilitation, and human–computer interaction. Despite rapid advancements in wearable sensor technology and computational algorithms, significant research challenges remain. High-quality data are crucial for data-driven human-movement monitoring algorithms. While the research community strives to share collected data, challenges remain regarding the ability to learn from heterogeneous sources of data and information. Can trained models be transferred or adapted to new environments and contexts or even individuals? In the absence of sufficient real data, what roles and limitations do synthetic data play in enhancing model performance? Additionally, considering the demanding requirements for continuous monitoring and processing, how can green computing solutions improve energy efficiency and manage model complexity while ensuring data privacy, for example, when cloud-based infrastructure is deployed?

Guest Editor

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