

## Special Issue

# Human Motion Capture and 3D Reconstruction

### Message from the Guest Editor

This Special Issue focuses on recent advances in human motion capture and 3D reconstruction, emphasizing 3D human avatar generation, human pose estimation, and multi-source data integration. It highlights methods that reconstruct dynamic human motion and appearance from heterogeneous inputs such as RGB images, depth sensors, IMUs, LiDAR, and other wearable or environmental sensors.

This topical collection covers the full pipeline of human-centric 3D understanding, including 2D/3D pose estimation, multimodal data fusion, parametric and neural human body modeling, and high-fidelity avatar reconstruction. Key challenges of interest include handling occlusions, noisy or incomplete data, cross-domain adaptation, sensor synchronization, and achieving real-time performance.

While traditional studies often focus on single-modality inputs or isolated tasks, this Special Issue highlights the increasing importance of multimodal fusion and end-to-end pipelines. By featuring contributions that leverage diverse data sources and emerging rendering techniques such as 3DGS, it offers an updated, integrated perspective on next-generation human motion capture and 3D reconstruction systems.

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### Deadline for manuscript submissions

15 October 2026



## Electronics

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### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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