

MotionSpaceFlow: Representation-Aware Flow Matching in Direct Motion Space

Original summary — NOT the original paper or model card.

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Coverage: Video topic

What the source reports

Text-to-human-motion flow matching directly in full-resolution motion space without a learned encoder/decoder. Representation-aware attention and noise scaling support incremental and absolute-coordinate motion; the XYZ variant adds inference-time joint/frame constraints. [4]

Managing expectations

Evaluated on HumanML3D and SnapMoGen only. Full-resolution sequences raise long-motion compute costs. Linear coordinate constraints do not guarantee physical feasibility, collision avoidance, contact, or joint limits. [4]

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