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Accuracy and repeatability of single-pose calibration of inertial measurement units for whole-body motion analysis

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### Highlights

- The T-pose with passive placement was more accurate for MVN model calibration.
- The chair-pose shows potential to increase the accuracy of IMUs calibration.
- Different single-pose calibrations showed similar repeatability.
- Similarity to laboratory motion analysis increased with passive placement of the subject.

### Abstract

Portable inertial measurement units (IMUs) are suitable for motion analysis outside the laboratory. However, IMUs depend on the calibration of each body segment to measure human movement. Different calibration approaches have been developed for simplicity of use or similarity to laboratory motion analysis, but they have not been extensively

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