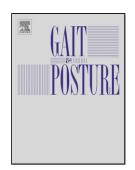
## Accepted Manuscript

Title: Novel Methodology for Estimating Initial Contact Events from Accelerometers positioned at Different Body Locations



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## ACCEPTED MANUSCRIPT

## **Research Highlights**

- 1. New methodology to estimate Initial Contact events from different body locations
- 2. Method incorporates domain knowledge about gait into time-frequency analysis
- 3. Benchmarked on four large public gait databases with a total of 613 subjects
- 4. Evaluated on accelerometer signals from seven unique body locations
- 5. Demonstrated to achieve high accuracy and robustness in estimating Initial Contact

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