

Materials List for:

Simulation of Human-induced Vibrations Based on the Characterized In-field Pedestrian Behavior

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Materials

Name	Company	Catalog Number	Comments
MTw Development Kit + MT Manager Software	Xsens	MTW-38A70G20-1	Development kit with wireless, highly accurate, small and lightweight 3D human motion trackers and accompanying click-in full body straps.
True Impulse Kinetic Measurement System + NDI Open Capture Data Acquisition and Visualization System	NDI Northern Digital Inc.	791028	TrueImpulse measures reaction forces exerted by humans during a wide variety of activities.
GMS-24	GeoSIG Ltd	Rev. 03.08.2010	(Wireless) accelerometers to register the structural vibrations.
GeoDAS GeoSIG Data Acquisition System	GeoSIG Ltd	Rev. 03.08.2010	Graphical MS Windows application running under Windows 9x/NT/2000, providing a software interface between users and GeoSIG recorders GSR/GCR/GBV/GT.
PediVib toolbox	KU Leuven		Software interface/toolbox to simulate the structural vibrations induced by pedestrians.
Metronome			A device to indicate the targetted pacing rate of the activity (free applications are available online for pc/laptop/smartphone).