

## Accepted Manuscript

Fall Detection without People: A Simulation Approach Tackling Video Data Scarcity

Georgios Mastorakis, Tim Ellis, Dimitrios Makris

PII: S0957-4174(18)30365-8  
DOI: [10.1016/j.eswa.2018.06.019](https://doi.org/10.1016/j.eswa.2018.06.019)  
Reference: ESWA 12013



To appear in: *Expert Systems With Applications*

Received date: 7 December 2017  
Revised date: 25 April 2018  
Accepted date: 7 June 2018

Please cite this article as: Georgios Mastorakis, Tim Ellis, Dimitrios Makris, Fall Detection without People: A Simulation Approach Tackling Video Data Scarcity, *Expert Systems With Applications* (2018), doi: [10.1016/j.eswa.2018.06.019](https://doi.org/10.1016/j.eswa.2018.06.019)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights**

- Fall detection system based on a myoskeletal (physics-based) simulation
- No need for video recordings of human falls
- Persons height is used to parameterise the simulation, addressing human variability
- State-of-the-art performance, tested in publicly available datasets
- System is robust on occlusions for up to 50

Download English Version:

<https://daneshyari.com/en/article/6854742>

Download Persian Version:

<https://daneshyari.com/article/6854742>

[Daneshyari.com](https://daneshyari.com)