

Accepted Manuscript

Determining the optimal features in freezing of gait detection through a single waist accelerometer in home environments

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PII: S0167-8655(17)30149-6
DOI: [10.1016/j.patrec.2017.05.009](https://doi.org/10.1016/j.patrec.2017.05.009)
Reference: PATREC 6815



To appear in: *Pattern Recognition Letters*

Received date: 1 February 2017
Revised date: 29 March 2017
Accepted date: 8 May 2017

Please cite this article as: Albert Samà , Daniel Rodríguez-Martín , Carlos Pérez-López , Andreu Català , Sheila Alcaine , Berta Mestre , Anna Prats , M. Cruz Crespo , Àngels Bayés , Determining the optimal features in freezing of gait detection through a single waist accelerometer in home environments, *Pattern Recognition Letters* (2017), doi: [10.1016/j.patrec.2017.05.009](https://doi.org/10.1016/j.patrec.2017.05.009)

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Highlights

- A new set of features is presented to detect FoG in 15 PD patients based on a single accelerometer.
- The approach is compared with 3 other works through different parameters and classifiers.
- Results show that the proposed set of features outperforms the other tested features.
- Real-time implementation of the method is envisaged due to its application with cueing stimuli.
- A feature set selection is applied, which is affordable for low-power consume microcontrollers.

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