Accepted Manuscript

Classifying Running Speed Conditions Using a Single Wearable Sensor: Optimal Segmentation and Feature Extraction Methods

Lauren C. Benson, Christian A. Clermont, Sean T. Osis, Dylan Kobsar, Reed Ferber

PII:	\$0021-9290(18)30067-8
DOI:	https://doi.org/10.1016/j.jbiomech.2018.01.034
Reference:	BM 8551
To appear in:	Journal of Biomechanics
Accepted Date:	28 January 2018



Please cite this article as: L.C. Benson, C.A. Clermont, S.T. Osis, D. Kobsar, R. Ferber, Classifying Running Speed Conditions Using a Single Wearable Sensor: Optimal Segmentation and Feature Extraction Methods, *Journal of Biomechanics* (2018), doi: https://doi.org/10.1016/j.jbiomech.2018.01.034

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.

ACCEPTED MANUSCRIPT

Classifying Running Speed Conditions Using a Single Wearable Sensor: Optimal

Segmentation and Feature Extraction Methods

Author names: Lauren C. Benson^a, Christian A. Clermont^a, Sean T. Osis^{a,b}, Dylan Kobsar^a, and

Reed Ferber^{a,b,c}

Author affiliations:

^a University of Calgary, Faculty of Kinesiology, 2500 University Dr. NW Calgary, AB T2N

1N4, Canada (lauren.benson@ucalgary.ca; christian.clermont@ucalgary.ca;

stosis@ucalgary.ca; drjkobsa@ucalgary.ca; rferber@ucalgary.ca)

^b Running Injury Clinic, Calgary, AB T2N 1N4, Canada

^c University of Calgary, Faculty of Nursing, 2500 University Dr. NW Calgary, AB T2N 1N4,

Canada

Corresponding author: Lauren C. Benson

Manuscript type: Original Article

Keywords: running, wearable sensors, accelerometer, machine learning

Word count: 3627

Abstract word count: 250

Download English Version:

https://daneshyari.com/en/article/7236426

Download Persian Version:

https://daneshyari.com/article/7236426

Daneshyari.com