Accepted Manuscript

Robust EMG pattern recognition in the presence of confounding factors: features, classifiers and adaptive learning

Yikun Gu, Dapeng Yang, Qi Huang, Wei Yang, Hong Liu

PII:S0957-4174(17)30806-0DOI:10.1016/j.eswa.2017.11.049Reference:ESWA 11692

To appear in:

Expert Systems With Applications

Received date:20 July 2017Revised date:17 November 2017Accepted date:24 November 2017

Please cite this article as: Yikun Gu, Dapeng Yang, Qi Huang, Wei Yang, Hong Liu, Robust EMG pattern recognition in the presence of confounding factors: features, classifiers and adaptive learning, *Expert Systems With Applications* (2017), doi: 10.1016/j.eswa.2017.11.049

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

- Multiple compounding factors are considered during the data-collection.
- Donning and doffing the electrodes on different arms is firstly tested.
- A variety of features and classifiers are examined to increase the robustness.
- New adaptive learning method effectively maintains the classification accuracy.

Ċ

Download English Version:

https://daneshyari.com/en/article/6855232

Download Persian Version:

https://daneshyari.com/article/6855232

Daneshyari.com