

## Accepted Manuscript

Detrended fluctuation analysis of EEG patterns associated with real and imaginary arm movements

A.N. Pavlov, A.E. Runnova, V.A. Maksimenko, O.N. Pavlova, D.S. Grishina, A.E. Hramov



PII: S0378-4371(18)30821-5  
DOI: <https://doi.org/10.1016/j.physa.2018.06.096>  
Reference: PHYSA 19790

To appear in: *Physica A*

Received date: 19 March 2018

Revised date: 20 May 2018

Please cite this article as: A.N. Pavlov, A.E. Runnova, V.A. Maksimenko, O.N. Pavlova, D.S. Grishina, A.E. Hramov, Detrended fluctuation analysis of EEG patterns associated with real and imaginary arm movements, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.06.096>

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## Highlights

- Real and imaginary arm movements are recognized with correlation analysis of EEG.
- Mental intentions related to arm movements are detected in the most of EEG-channels.
- DFA can be used as data processing algorithm in brain-computer interfaces.

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