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Neural Computing and Applications  
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# Multiple classifier system for EEG signal classification with application to brain-computer interfaces

Amir Ahangi, Mehdi Karamnejad, Nima Mohammadi, Reza Ebrahimpour, Nasoor Bagheri



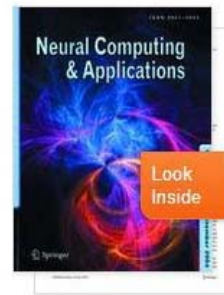
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## Abstract

In this paper, we demonstrate the use of a multiple classifier system for classification of electroencephalogram (EEG) signals. The main purpose of this paper is to apply several approaches to classify motor imageries originating from the brain in a more robust manner. For this study, dataset II from BCI competition III was used. To extract features from the brain signal, discrete wavelet transform decomposition was used. Then, several classic classifiers were implemented to be utilized in the multiple classifier system, which outperforms the reported results of other proposed methods on the dataset. Also, a variety of classifier combination



### Within this Article:

- » Introduction
- » EEG data
- » Methodology
- » Experimental results
- » Conclusion
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### Related Content

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Multiple classifier system for EEG signal classification with application to brain-computer interfaces

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10.1007/s00521-012-1074-3

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#### Keywords

EEG classification  
Motor imagery  
Wavelet feature extraction  
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