Automatic recognition of human psychological state on the basis of EEG-based data

Kachiashvili K.J.

Summary

The paper deals with the problem of binary classification of EEG data at restricted computing and time resources. Eleven different criteria of similarity of multivariate time series (MTS) were used for this purpose. On the basis of computation results of 32 dimensional EEG signals was established the priority of the considered methods. Methods "ascending eigenvalue-weighted difference between eigenvector matrices", "getting into the confidence regions of the linear trends of MTS" and of the method which is obtained by the union of previous two methods gave the better results by classification accuracy than others.