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Advanced Science Letters
Volume 23, Issue 11, November 2017, Pages 11369-11373

Affective state classification through CMAC-based model of affects (CCMA) using SVM (Article)

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Abstract

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A number of computational models have been proposed to perform emotion profiling through affective state classification using EEG signals. However, such models do not include both temporal and spatial dynamic of the signals. It is also observed that the performance of classifying emotion using the existing models produce high classification accuracy on one subject, but not on different subjects. Thus, in this paper CMAC-based Computational Model of Affects (CCMA) is proposed as feature extraction for the classification task. CCMA keeps the temporal and spatial dynamics of EEG signals to produce better classification performance. Using Support Vector Machine (SVM) as classifier, the features produce higher classification accuracy for heterogeneous test. © 2017 American Scientific Publishers All rights reserved.

Author keywords

Affective Computing CCMA EEG SVM

Funding details

Funding number	Funding sponsor	Acronym	Funding opportunities
FRGS14-137-0378	Ministry of Higher Education	MOHE	See opportunities by MOHE

Funding text

Acknowledgments: This work is supported by Fundamental Research Grant Scheme (FRGS) funded by the Ministry of Higher Education (Grant code: FRGS14-137-0378).

ISSN: 19366612

Source Type: Journal

Original language: English

DOI: 10.1166/asl.2017.10285

Document Type: Article

Publisher: American Scientific Publishers

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