

Matching Pursuit for P300-based Brain-Computer Interfaces



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"Since the evoked responses obtained by stimulation are much weaker than the continuous electroencephalographic signal, the correct signal analysis enhances stimulation-driven signal components. The paper proposes methods for event-related potential processing for brain-computer interfaces based on matching pursuit. The suggested method is compared with another simple method which is frequently used for feature extraction. A multi-layer perceptron was used for classification. The results can be used to improve the feature extraction for BCI systems."

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Praha