

Accepted Manuscript

Title: A Novel Approach to Signal Classification with an Application to Identifying the Alcoholic Brain

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PII: S1568-4946(16)30100-4

DOI: <http://dx.doi.org/doi:10.1016/j.asoc.2016.02.048>

Reference: ASOC 3508

To appear in: *Applied Soft Computing*

Received date: 7-8-2014

Revised date: 2-1-2016

Accepted date: 27-2-2016

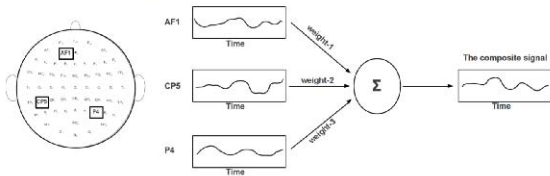


Please cite this article as: Arnab Roy, J. David Schaffer, Craig B. Laramée, A Novel Approach to Signal Classification with an Application to Identifying the Alcoholic Brain, *Applied Soft Computing Journal* (2016), <http://dx.doi.org/10.1016/j.asoc.2016.02.048>

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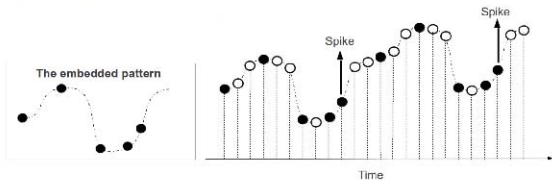
Spatial-task:

Define a subset of EEG leads/lead-weights using which a composite signal can be created for each subject



Temporal-task:

Detect hidden temporal patterns that are more prevalent in the alcoholic composite signals than control composite signals



1. We use an evolutionary computation based approach to solve the spatial and the temporal tasks simultaneously
2. This procedure may also be applied to other signal classification problems that contain multiple channel data

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