**A Wearable EEG Based Drowsiness Detection System with Blink Duration and Alpha Waves Analysis**

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Objective – Detecting drowsiness in 3 stages Blink Duration, Alpha Wave Burst and Alpha wave duration

Feature Extraction - Power Spectral Density Analysis, Fast Fourier Transform

Feature Selection - ---------------------------------------------------------------------

Classification - Done in 3 stages to avoid computation expense in classification

Accuracy – 85%

**A Motor Imagery using Wavelet Analysis and Spatial Pattern features extraction**

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David D´Croz-Baron, Pilar Gomez-Gil

Objective – Extracting Event Related Syncronization/Desynchronization

Feature Extraction - 1. Using Spatial Patterns obtained from Hilbert transform

2. Wavelet Analysis using Discrete Wavelet Transform

Feature Selection –

Classification – 1. LDA

2. QDA

3. SVM

Accuracy – 87.86% using LDA classifier and Discrete Wavelet Analysis feature extraction