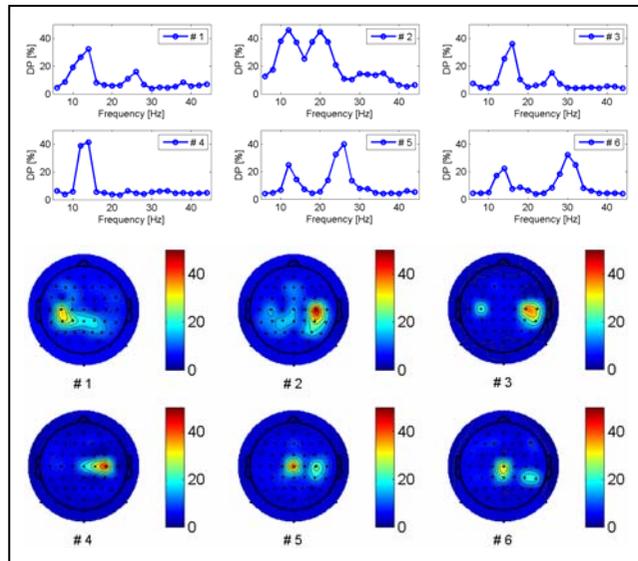
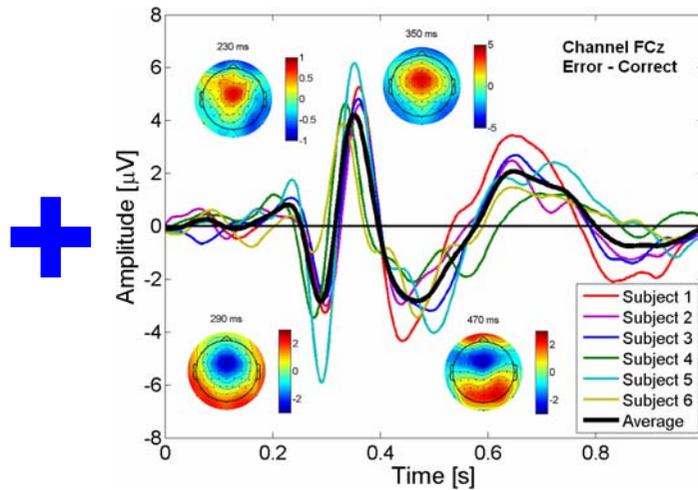
EEG-Based Brain-Computer Interaction: Improved Accuracy by Automatic Single-Trial Error Detection

Pierre W. Ferrez & José del R. Millán — Poster ID W68
IDIAP Research Institute & Ecole Polytechnique Fédérale de Lausanne

Simultaneous detection of **motor imagery** and **error-related potentials (ErrP)** for improved BCI interaction

+ **=** **Bit rate doubled!!**

Motor imagery
α & β bands, central area

Error-related potentials
Anterior cingulate cortex