

Library of statistical methods for EEG/ERP experiments



MOUŽEK, R., PROKOP, T. *Library of statistical methods for EEG/ERP experiments*. 2011.

The sample product enables users to statistically process data from EEG/ERP experiments. It is implemented as java library and apart from refactored one way analysis of variance (ANOVA) it contains three newly implemented statistical methods – a two way analysis of variance (ANOVA), a one way multivariate ANOVA (MANOVA) and a two way MANOVA. The MANOVA is implemented with all MANOVA significant statistical tests – Pillai- Bartlett trace, Wilk's lambda, Hotelling Lawley trace and Roy's greatest characteristic root. The library was presented in the paper Roman Moužek, Petr Jaroš, Petr Ježek, Václav Papež: Software infrastructure for EEG/ERP research, Proceedings of the International Conference on Knowledge Engineering and Ontology Development, Paris, 2011. The user manual for the product is in the attached file manual.pdf.