

Model of Software and Hardware Infrastructure for Electrophysiology



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Large amounts of EEG/ERP (electroencephalography, event-related potential) data, various data formats and non-standardized domain description lead to incompatible results and interpretations of EEG/ ERP experimental data/metadata and to difficult communication between interested laboratories. Authors' research group has solved these problems and has contributed to the building of a neuroinformatics infrastructure by developing and integrating data management and analytic tools for EEG/ERP research. The model of the software and hardware infrastructure for electrophysiology, and the context and architecture of the developed EEG/ERP Portal, serving to manage, share and process EEG/ERP experiments, are presented. Other additional tools are briefly described.

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