System for storage and management of EEG/ERP experiments - generation of ontology

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This paper shortly describes the system, which provides the possibility to store and manage data and metadata from EEG/ERP experiments. The system is planned to be registered as a source of neuroscience data and metadata. It is one of the reasons we need to provide the system ontology. The scientific papers often describe the domain by using a semantic web language and consider this kind of domain modeling as a crucial point of software solution. However, real software applications use up the underlying data structures such as relational database and object classes. That is why the fundamental differences in semantics between common data structures (relational database, object oriented code) were summarized. The existing tools in semantic web domain were studied and partially tested. The first transformations from the system relational database and object oriented code were performed.

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