

EEG/ERP portal - Extending object oriented code for the missing semantics using Java annotations



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Since EEG/ERP experiments produce a lot of data we have been facing a lot of difficulties with their long term storage and management. As the result the EEG/ERP portal has been developed. Because we are registering the EEG/ERP portal as a recognizable data source within the Neuroscience Information Framework (NIF) we need to provide the portal structure in the form of ontology expressed by the semantic web technologies. Since most applications are developed using object oriented modeling we need to ensure a suitable mapping. Concerning one side transformation this mapping can be performed relatively satisfactorily. However, when we want to use more capabilities of OWL, we have to enrich the object-oriented code by the missing semantics.

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