Ontology Development in EEG/ERP Portal

The EEG/ERP (Electroencephalography/Even- Related Potentials) Portal serves for storage and management of ERP experiments. The protocols describing these experiments are designed and implemented using various software applications and/or hardware devices. Some protocols are kept in XML files and stored in the EEG/ERP portal database as LOB (Large Object) data types. Since it is important for researchers to directly find details about design of the ERP protocols in the related XML files and it is also hard to use LOB data for generating the semantic web output, storage types provided by the Oracle 11g database system were investigated and compared. Therefore a new model of storage of ERP protocols is introduced. This model is finally simplified after analysis of results of performance tests.

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