Model of Syntactic Compatibility in Worksflows for Electrophysiology

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Large amounts of EEG/ERP (electroencephalography, event-related potential) data are produced by scientific laboratories. For complex analysis, data are processed by a set of methods sequentially or in parallel. These processes are known as workflows. However, various input/output formats of used methods involve difficulties while putting methods in a pipe. Simple syntactic rules comparing formats of input/output are already used by workflow engines. In electrophysiology, it is necessary to extend these rules due to variety of methods. Therefore, extension of syntactic rules between subsequent methods in a workflow is presented in this paper. The proposed solution allows creating more complex workflows in the domain of electrophysiology.

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