Knowledge Engineering from Experimental Design

RRID:SCR_001238
Type: Tool

Proper Citation

Knowledge Engineering from Experimental Design (RRID:SCR_001238)

Resource Information

url: https://wiki.birncommunity.org/display/NEWBIRNCC/Knowledge+Engineering+from+Experimental+Design+%28%27KEfED%27%29

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Description: Knowledge engineering software for reasoning with scientific observations and interpretations. The software has three parts: (a) the KEfED model editor - a design editor for creating KEfED models by drawing a flow diagram of an experimental protocol; (b) the KEfED data interface - a spreadsheet-like tool that permits users to enter experimental data pertaining to a specific model; (c) a "neural connection matrix" interface that presents neural connectivity as a table of ordinal connection strengths representing the interpretations of tract-tracing data. This tool also allows the user to view experimental evidence pertaining to a specific connection. The KEfED model is designed to provide a lightweight representation for scientific knowledge that is (a) generalizable, (b) a suitable target for text-mining approaches, (c) relatively semantically simple, and (d) is based on the way that scientist plan experiments and should therefore be intuitively understandable to non-computational bench scientists. The basic idea of the KEfED model is that scientific observations tend to have a common design: there is a significant difference between measurements of some dependent variable under conditions specified by two (or more) values of some independent variable.

Abbreviations: KEfED

Resource Type: software resource, software application

Defining Citation: PMID:21859449

Keywords: experimental design, observation, interpretation, reasoning, experimental data, observational assertion, knowledge engineering, java
Funding Agency: NIGMS, NIMH, NCRR

Resource Name: Knowledge Engineering from Experimental Design

Resource ID: SCR_001238

Alternate IDs: nif-0000-07745

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Ratings and Alerts

No rating or validation information has been found for Knowledge Engineering from Experimental Design.

No alerts have been found for Knowledge Engineering from Experimental Design.

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Data and Source Information

Source: SciCrunch Registry

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Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID.