Student project / BA-Thesis

Interactive Visualisation of Bayesian Networks

Topic

Bayesian Networks offer a nice and intuitive framework for probabilistic reasoning and their graphical nature can often be interpreted quite nicely. However a dynamic and interactive visualization for the different kinds of Bayesian Networks (e.g. standard Belief Networks, Bayesian Decision Networks and Dynamic Bayesian Networks) is currently not available for our inference implementation PRIMO (https://github.com/SocialCognitiveSystems/Primo).

Tasks

- Extent or redo the existing web-based visualization prototype.
- (Optional) Improve or extend the existing PRIMO backend.

Useful skills

- Basic knowledge of Bayesian Networks and probabilistic inference
- Experience with web-based visualization (e.g. d3.js)

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