
Copyright of the Causal Learner toolbox (version 1.0)

Causal Learner is a toolbox for learning causal structure and Markov blanket from data. It integrates functions for generating simulated Bayesian network data, a set of state-of-the-art global causal structure learning algorithms, a set of state-of-the-art local causal structure learning algorithms, a set of state-of-the-art Markov blanket learning algorithms, and functions for evaluating algorithms. The data generation part of Causal Learner is written in R, and the rest of Causal Learner is written in MATLAB. Causal Learner aims to provide researchers and practitioners with an open-source platform for causal learning from data and for the development and evaluation of new causal learning algorithms. The Causal Learner project is available at http://bigdata.ahu.edu.cn/causal-learner.

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The toolbox includes the source codes developed by other scholars used as shown below.

1. The source codes of the MMHC algorithm in the Probabilistic Graphical Model toolobox
Copyright © Ioannis Tsamardinos
Code link: http://mensxmachina.org/en/software/probabilistic-graphical-model-toolbox/

2. The source codes of the GES algorithm.
Copyright © Biwei Huang
Code link: https://github.com/Biwei-Huang/Generalized-Score-Functions-for-Causal-Discovery

3. Abundant functions from Bayes Net Toolbox
Copyright © Kevin Murphy
Code link: https://www.cs.utah.edu/~tch/notes/matlab/bnt/docs/bnt_pre_sf.html