Pot-luck causality challenge: FACT SHEET (for a task solved)

Title: --

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Task solved: CauseEffectPairs

Reference:
The abstract+poster - "Inferring the algorithmic direction of causal pairs"

Method:
The preprocessing consists in transforming each value in its rank.
Then the Chaitin entropy has been approximated from above for each of the two variables, picking the one appearing to have the highest information as "the cause".

Results:
As the true labels have not been provided, there is no way to know how accurate the method has been. On my tests, it was invariant to scaling, adding outliers and other transformations, which gives it good chances of being accurate for sound problems.

The implementation is straight-forward, based on an in-house information computation toolbox.

Keywords:

- Preprocessing or feature construction: ranking.
- Causal discovery: n/a
- Feature selection: **n/a**
- Classifier: linear
- Hyper-parameter selection: n/a