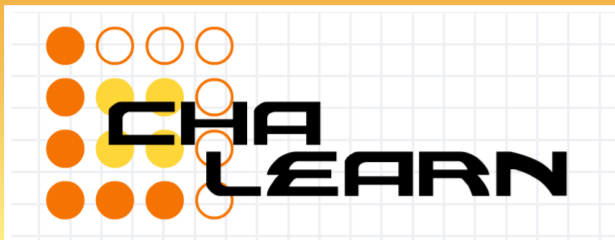


**Free registrations, cash prizes, 2 workshops in 2013
(at IJCNN and NIPS), interactive website and live
competition, proceedings in JMLR W&CP, much fun!**



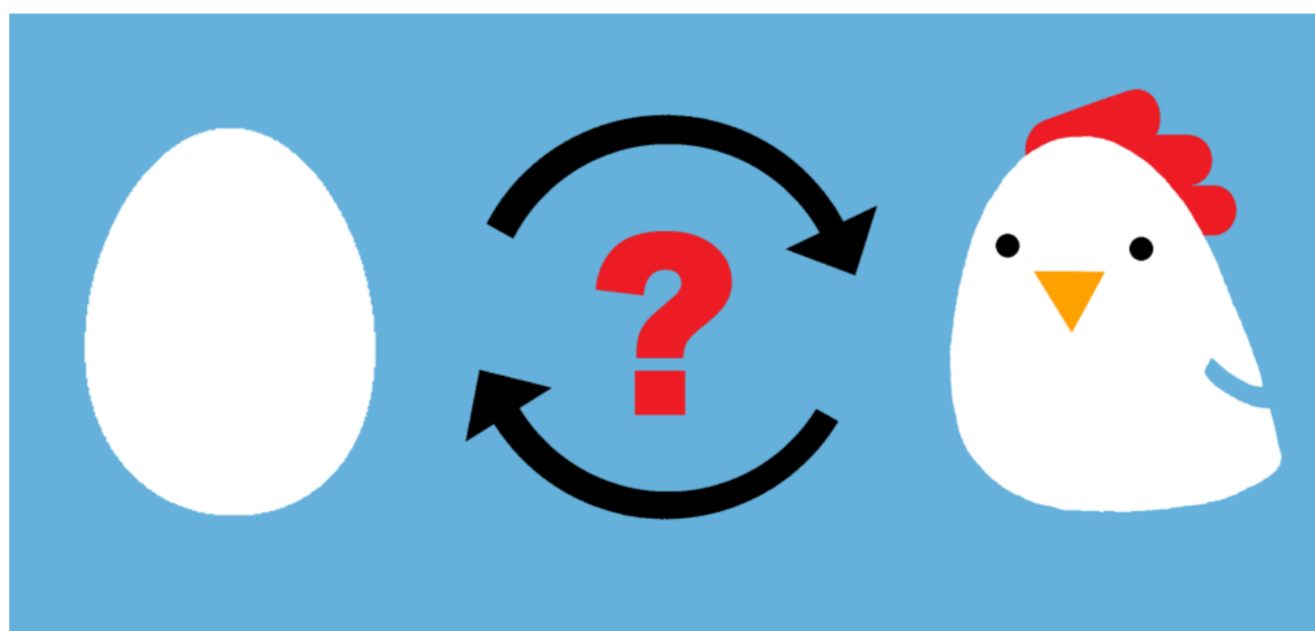
kaggle



Cause-effect pairs challenge

<http://www.causality.inf.ethz.ch/cause-effect.php>
causality@chalearn.org

The goal of this event is to evaluate for a large number of pairs of variables whether one is a cause of the other. This challenge will use both cause-effect pairs with established ground truth (provided by the organizers) and query pairs with NO known ground truth (provided both by the organizers and the participants). The query pairs will be intermixed with test set pairs to be scored by the participants. We hope that this will foster new scientific discoveries.



We provide hundreds of pairs of real variables with known causal relationships from domains as diverse as chemistry, climatology, ecology, economy, engineering, epidemiology, genomics, medicine, physics, and sociology. Those are intermixed with controls (pairs of independent variables and pairs of variables that are dependent but not causally related) and semi-artificial cause-effect pairs (real variables mixed in various ways to produce a given outcome).

This challenge is limited to pairs of variables deprived of their context. Thus constraint-based methods relying on conditional independence tests and/or graphical models are not applicable. The goal is to push the state-of-the-art in complementary methods, which can eventually disambiguate Markov equivalence classes.