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Discovering Causal Structure from Observations [[ATTN: Style: some redundancy with respect to “how many ways of writing an open triple are there”, and “you can use any CI test you like, honest” — fragments of an incomplete 2012 re-write. Smooth out]]
[[TODO: Further examples]]

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inference, knowing the causal graph is very helpful. We have looked at how it would let us calculate the effects of actual or hypothetical manipulations of the variables in the system. Furthermore, knowing the graph tells us about what causal effects we can and cannot identify, and estimate, from observational data. But everything has posited that we know the graph somehow.

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[MOBI] Discovering Causal Structure

Discovering Causal Structure: Artificial Intelligence, Philosophy of Science, and Statistical Modeling provides information pertinent to the fundamental aspects of a computer program called TETRAD. This book discusses the version of the TETRAD program, which is designed to assist in the search for causal explanations of statistical data. or ...

Discovering Causal Structure | ScienceDirect

The fundamental idea behind learning causal structures is that some structures produce characteristically different sets of

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observations. For example, the common effect causal structure $D \rightarrow A \leftarrow I$ would likely produce sets of data in which D and I are independent (they are not correlated).

Causal Structure Learning over Time: Observations and ...

Causal structure is the set of causal relationships among a set of variables, and causal structure discovery is the problem of learning the causal structure from observational data.

Dedicated...

Challenges and Opportunities with Causal Discovery ...

The paper presented a novel approach for discovering causal dependencies between events recorded in large volumes of H&S data. The approach is based on the notion of proximity of H&S observations and incidents. The proposed approach was evaluated through a case study conducted in an Australian energy company.

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A systematic approach for discovering causal dependencies ...

Causal Discovery & Causal Disentangled Representation Learning: We refer to causal representation as ones structured by a causal graph. Discovering the causal graph from pure observations has attracted large amounts of attention in the past decades Hoyer et al. [2009], Zhang and Hyvarinen [2012], Shimizu et al. [2006].

CausalVAE: Disentangled Representation Learning via Neural ...

We therefore present the Temporal Causal Discovery Framework (TCDF), a deep learning framework that learns a causal graph structure by discovering causal relationships in observational time series data. TCDF uses attention-based convolutional neural networks combined with a causal validation step.

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MAKE | Free Full-Text | Causal Discovery with Attention ...

Causal relations can be seen if interventions are properly applied; however, in many cases they are difficult or even impossible to conduct. It is then necessary to discover causal relations by analyzing statistical properties of purely observational data, which is known as causal discovery or causal structure search.

Frontiers | Review of Causal Discovery Methods Based on

...

Discovering causal structure of a dynamical system from observed time series is a traditional and important problem. In many practical applications, observed data are obtained by applying subsampling or temporally aggregation to the original causal processes, making it difficult to discover the underlying causal relations.

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Causal Discovery from Temporally Aggregated Time Series

Observational learning The causal model literature in AI has developed various algorithms for inferring causal structure from observational data, many of which exploit the conditional dependencies encoded in the structure of a causal graph.

LEARNING CAUSAL STRUCTURE - University College London

The fact that a basic causal structure of physics cannot gain consensus makes this interesting territory, plus it has far-reaching implications. A proper explanation doesn't just account for the non-locality of entanglement or the apparent uncertainty of superposition — it explains how humans fit into reality.

God in the Loop: How a Causal Loop Could Shape

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Existence ...

A second possibility is that children might be more likely to remember the results of their own discoveries; observing the experimenter press buttons at the end of the discovery condition might consolidate children's observations into a more easily accessible memory, which is accessed when the child is asked the causal structure questions.

The Importance of Discovery in Children's Causal Learning ...

The discovery of causal relationships between a set of observed variables is a fundamental problem in science. For continuous-valued data linear acyclic causal models are often used because these...

Patrik O. Hoyer's research works | University of Helsinki

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The key is to identify the causal effects on the desired event. It is achievable with do-calculus if the causal structure is known; however, in many real tasks it is not easy to infer the whole...

Cost-effectively Identifying Causal Effects When Only ...

Causal discovery makes assumptions on the nature of causality that connect the observable data properties (i.e., the joint probability distribution of the observed variables) to the underlying...

Predicting Causal Relationships from Biological Data ...

causal inference programs are hidden by layers of formal technique. Therefore, it is important to make the ideas explicit and probe them carefully. SGS illustrate the problem; these authors contend they have algorithms for discovering causal relations based only on empirical data, with no little or no need for subject-matter knowledge.

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Are There Algorithms That Discover Causal Structure? 30

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Since interventions or controlled randomized experiments are usually expensive or even impossible to conduct, discovering causal information from observational data, known as causal discovery (Spirtes et al., 2001; Pearl, 2000), has been an important task and received much attention in computer science, statistics, and philosophy.

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