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From Observations **Discovering Causal Structure From Observations**

Discovering Causal
Structure from
Observations The last few
chapters have, hopefully,
convinced you that when
you want to do causal
inference, knowing the
causal graph is very
helpful. We have
looked at how it would
let us calculate the

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Discovering Causal Structure

effects of actual or hypothetical manipulations of the variables in the system. Furthermore, knowing the graph tells us about what causal effects we

Discovering Causal Structure from Observations

Causal structure is the set of causal relationships among a set of variables, and causal structure

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discovery is the
problem of learning the
causal structure from
observational data.
Dedicated...

Challenges and Opportunities with Causal Discovery ...

Discovering Causal
Structure: Artificial
Intelligence, Philosophy
of Science, and
Statistical Modeling
provides information
pertinent to the
fundamental aspects of

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Discovering Causal Structure From Observations
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 alternative models.

Discovering Causal Structure | ScienceDirect

The problem of causal structure discovery (CSD) consists of

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inferring a network of
cause-and-effect
relationships between
many variables using
observational data and
domain knowl-edge. In
contrast to the
estimation of single
causal relation-ships,
CSD finds consistent
causal graphs over all
variables,
exponentially
increasing problem
complexity.

Scalable

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Discovering Probabilistic Causal Structure Discovery

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

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search.

Causal Structure

**Frontiers | Review of
Causal Discovery
Methods Based on ...**

Learning Causal Models
discovering the causal
structure with
observation and
experiments. Learn the
causal graph G (of M)
by systematically
combining
observations (L 1) and
experimentation (L 2).

Causal

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Reinforcement Learning

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

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[2012], Shimizu et al.
[2006].

CausalVAE: Disentangled Representation Learning via Neural

...

Generally, analysis of causal relationships is one of the most complex problems in ML. For two observed variables, the number of possible causal relationships is limited and methodologies to...

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**Causal analysis of
competing atomistic
mechanisms in ...**

The causal relationships, i.e., which other variables the linear functions depend on, can be described using a directed graph. It has been previously shown that when the variable specific error terms are non-Gaussian, the exact causal graph, as opposed to a Markov

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equivalence class, can
be consistently
estimated from
observational data.

Observations

[1803.11273] High-Dimensional Causal Discovery Under non

...

Various research has suggested that students learn better by discovering causal structure through guided activity-based exercises, rather than being directly told what

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to do or being given unstructured activity (e.g., Kittel, 1957; Shulman and Keisler, 1966; Bredderman, 1983; Mayer, 2004). Our goal is to apply this hypothesis to the process of learning a novel causal structure.

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

The relation between causal structure and

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cointegration and long-run weak exogeneity is explored using some ideas drawn from the literature on graphical causal modeling. It is assumed that the fundamental source of trending behavior is transmitted from exogenous (and typically latent) trending variables to a set of causally ordered variables that would not themselves display nonstationary ...

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Discovering
**The Discovery of
Long-Run Causal
Order: A Preliminary
Observations**

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

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convolutional neural
networks combined
with a causal validation
step.

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

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

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infer the whole...

Discovering Causal Structure

**Cost-effectively
Identifying Causal
Effects When Only ...**

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

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independent (they are
not correlated).

From Observations **Causal Structure Learning over Time: Observations and ...**

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

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temporally aggregation
to the original causal
processes, making it
difficult to discover the
underlying causal
relations.

Causal Discovery from Temporally Aggregated Time Series

Causal relations can be seen if interventions are properly applied; however, in many cases they are difficult or even impossible to

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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.

Review of Causal Discovery Methods Based on Graphical Models

Causal discovery algorithms aim to find

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the causal relations
among the observed
variables.

Causal Discovery in the Presence of Measurement Error

...

Discovering the causal structure among a set of variables is a fundamental problem in many areas of science. In this paper, we propose Kernel Conditional Deviance for Causal Inference

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(KCDC) a...

Discovering Causal Structure

Jovana Mitrovic's research works

A collaboration with my students, Kevin Kelly, Richard Scheines and Peter Spirtes developed automated heuristic procedures for respecification of linear latent variable models, later described in *Discovering Causal Structure* (Academic Press, 1987).

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