

Discovering Causal Structure From Observations

The word observable in this sense does not refer to the capability of modern technology to detect light or other information from an object, or whether there is anything to be detected. It refers to the physical... 3d81e0e20c Associated with the natural, applied, formal, and social sciences this research strategy promotes the objective empirical investigation of observable phenomena to test and understand relationships. This is done through a range of quantifying methods and techniques, reflecting on its broad utilization as a research strategy across differing academic disciplines. 3d81e0e20c 1. When exploring in-depth or complex topics. 3d81e0e20c

Bayesian network Given symptoms, the network can be used to compute the probabilities of the presence of various diseases. directed acyclic graph (DAG). Bayesian networks A Bayesian network (also known as a Bayes network, Bayes net, belief network, or decision network) is a probabilistic graphical model that represents a set of variables and their conditional dependencies via a directed acyclic graph (DAG). For example, a Bayesian network could represent the probabilistic relationships between diseases and symptoms. While it is one of several forms of causal notation, causal networks are special cases of Bayesian networks. Bayesian networks are ideal for taking an event that occurred and predicting the likelihood that any one of several possible known causes was the contributing factor. While it is one of several forms of causal notation, causal networks are special cases of Bayesian networks 3d81e0e20c

Because of problems concerning humans' ability to define, discover, and know causality, this was omitted in initial formulations of the DN model. Causality was thought to be incidentally approximated by realistic selection of premises that derive the phenomenon of interest from observed starting conditions plus general laws. Still,... 3d81e0e20c This approach has become popular with psychologists as it gives a basis from which to explore human social understanding. Beginning in the mid-1980s, several influential developmental psychologists... 3d81e0e20c

Theory-theory accordingly. This concept The theory-theory (or 'theory theory') is a scientific theory relating to the human development of understanding about the outside world. This information is used to understand the intentions behind that person's actions or predict future behavior. Children can also use these theories about the world's causal structure to make predictions, and possibly even test them out. This theory asserts that individuals hold a basic or 'naïve' theory of psychology ("folk psychology") to infer the mental states of others, such as their beliefs, desires or

emotions. The term 'perspective taking' is sometimes used to describe how one makes inferences about another person's inner state using theoretical knowledge about the other's situation 3d81e0e20c

Observational cosmology matter within a field of the sky. These observations are used to measure properties of the large-scale structure of the universe. The Great Wall, a vast Observational cosmology is the study of the structure, the evolution and the origin of the universe through observation, using instruments such as telescopes and cosmic ray detectors 3d81e0e20c

Under logical empiricism's influence, especially Carl Hempel's work on the... 3d81e0e20c There are several situations where quantitative research may not be the most appropriate or effective method to use: 3d81e0e20c Efficient algorithms can perform inference and learning in Bayesian... 3d81e0e20c

The Structure of Scientific Revolutions New paradigms then ask new questions of old data, move beyond the mere "puzzle-solving" of the previous paradigm,. Its publication was a landmark event in the history, philosophy, and sociology of science. Kuhn argued for an episodic model in which periods of conceptual continuity and cumulative progress, referred to as periods of "normal science", were interrupted by periods of revolutionary science. The discovery of "anomalies" accumulating and precipitating revolutions in science leads to new paradigms. Kuhn challenged the then prevailing view of progress in science in which scientific progress was viewed as "development-by-accumulation" of accepted facts and theories. Its publication was a landmark The Structure of Scientific Revolutions is a 1962 book about the history of science by the philosopher Thomas S. Kuhn. Kuhn. The Structure of Scientific Revolutions is a 1962 book about the history of science by the philosopher Thomas S 3d81e0e20c

Maunder Minimum During the 28-year period 1672–1699 within the minimum, observations revealed fewer than 50 sunspots. This contrasts with the typical 40,000–50,000 sunspots seen in modern times over a similar timespan. The Maunder Minimum, also known as the "prolonged sunspot minimum", was a period around 1645 to 1715 during which sunspots became exceedingly rare. were not significantly different from the previous 80 years, suggesting a decline in solar activity was not the main causal driver of the Little Ice Age 3d81e0e20c

Quantitative research regarded as being only a means by which observations are expressed numerically in order to investigate causal relations or associations. It is formed from a deductive approach where emphasis is placed on the testing of theory, shaped by empiricist and positivist philosophies. However, it has Quantitative research is a research strategy that focuses on quantifying the collection and analysis of data 3d81e0e20c

Causality Causal powers Whereas David Hume argued that causes are inferred from non-causal observations, Immanuel Kant claimed that Causality is an influence by which one event, process, state, or object (a cause) contributes to the production of another event, process, state, or object (an effect) where the cause is at least partly responsible for the effect, and the effect is at least partly dependent on the cause. The cause of something may also be described as the reason for the event or process. intent; and responsibility

Wesley C. Salmon He also worked on confirmation theory, trying to explicate how probability theory via inductive logic might help confirm and choose hypotheses. nature's structure and thereby involves the ontic (concerning reality), how the phenomenon "fits into the causal nexus" of the world (Salmon's causal/mechanical Wesley Charles Salmon (August 9, 1925 - April 22, 2001) was an American philosopher of science renowned for his work on the nature of scientific explanation. Yet most prominently, Salmon was a realist about causality in scientific explanation, although his realist explanation of causality drew ample criticism. Still, his books on scientific explanation itself were landmarks of the 20th century's philosophy of science, and solidified recognition of causality's important roles in scientific explanation, whereas causality itself has evaded satisfactory elucidation by anyone

In general, a process can have multiple causes, which are also said to be causal factors for it, and all lie in its past. An effect can in turn be a cause of, or causal factor for, many other effects, which all lie in its future. Some writers have held that causality is metaphysically prior to notions of time and space. Causality is an abstraction that indicates how the world progresses. As such it is a basic concept; it is... The Maunder Minimum was first noted by Gustav Spörer in publications in 1887 and 1889, work that was relayed to the Royal Astronomical Society in London, and then expanded on, by solar astronomers Edward Walter Maunder (1851-1928), and his wife Annie Russell Maunder (1868-1947), who also studied how sunspot latitudes changed with time. Two papers were published in Edward Maunder's name in 1890 and 1894, and he cited the two earlier papers written...

Deductive-nomological model ". statements of humans' observations, thus are epistemological—concerning human knowledge—the epistemic. The DN model poses scientific explanation as a deductive structure, one where truth of its premises entails truth of its conclusion, hinged on accurate prediction or postdiction of the phenomenon to be explained. Causal mechanisms and structures existing putatively The deductive-nomological model (DN model) of scientific explanation, also known as Hempel's model, the Hempel-Oppenheim model, the Popper-Hempel model, or the covering law model, is a formal view of scientifically answering questions asking, "Why

2. When studying subjective...

Observable universe That is, the observable universe is a spherical region centered on the observer. by direct observation about any part of the universe that is causally disconnected from the Earth, although many credible theories require a total universe The observable universe is a spherical region of the universe consisting of all matter that can be observed from Earth; the electromagnetic radiation from these objects has had time to reach the Solar System and Earth since the beginning of the cosmological expansion. Every location in the universe has its own observable universe, which may or may not overlap with the one centered on Earth. Assuming the universe is isotropic, the distance to the edge of the observable universe is the same in every direction 3d81e0e20c

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