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<p>Inference by Compression Kailash Budhathoki Jilles Vreeken Received: date / Accepted: date Abstract Causal inference from observational data is one of the most fun- damental problems in science. In general, the task is to tell whether it is more likely that X caused Y, or vice versa, given only data over their joint distribution. @l et@token Origo: Causal Inference by CompressionG et the latest</p>	<p>machine learning methods with code. Browse our catalogue of tasks and access state- of-the-art solutions. Tip: you can also follow us on TwitterCausal Discovery using Compression- Complexity Measures ...Importantly, for discrete data in general, CUTE, which stands for causal inference on event sequences, has only a linear time worst case runtime complexity. While there</p>	<p>exist many causal inference approaches for timeseries, ma nyofwhichbas edonGrangerc ausality, there areonlyfewtha tareapplicable oneventseque nces.Causal Inference on Event Sequencescau sal inference by compression. That is, we infer that X is a likely cause of Y if we can better compress the data by first encoding X , and then encoding Y given X , than in the other(PDF)</p>
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quantifying the relationship between a particular exposure (the 'cause') and an outcome (the 'effect').
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will be used throughout this article. For subject i , ($i = 1, \dots, N$), Y_i or o_i will denote the observed outcome (here it will be assumed to be a continuous random variable, in Section 2.4 we introduce analogous notation for the binary outcomes setting), E_i will denote a binary treatment or exposure, and X_i will ... causal inference by compression. That is, we infer that X is a likely cause of Y if we can

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 Abstract
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<p>I; 11: IV I; 12: IV I & II; 13: Planning evaluations + other evaluations; 14: Ethics and ... <i>@let@token</i> <i>Origo: Causal Inference by Compression</i> Causal Inference on Event Sequences Causal inference is one of the most fundamental problems across all domains of science. We address the problem of inferring a causal direction from two observed discrete</p>	<p>symbolic sequences X and Y. We present a framework which relies on lossless compressors for inferring context-free grammars (CFGs) from sequence pairs and quantifies the extent to which the grammar inferred from one sequence ... <i>Causal Discovery using Compression- Complexity Measures ...</i> Importantly, for discrete data in general, CUTE, which stands</p>	<p>for causal inference on event sequences, has only a linear time worst case runtime complexity. While there exist many causal inference approaches for timeseries, ma nyofwhichbas edonGrangerc ausality, there areonlyfewtha tareapplicable oneventseque nces. Causal inference The Alan Turing Institute Causal inference is concerned with the</p>
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