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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 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 ...

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Causal inference questions address some of the most interesting and impactful issues, but they are also some of the most difficult. Unlike with description and prediction, the answers cannot be 'learnt' purely from the data, and instead require either strict conditions or expert knowledge.

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