Review of: "Causality in Machine Learning: Innovating Model Generalization through Inference of Causal Relationships from Observational Data"

Xiaoke Huang[1]

1 Zhejiang University

Potential competing interests: No potential competing interests to declare.

The paper investigated techniques to infer directed causal graphs from diverse datasets using constraint-based, score-based, and neural structure learning algorithms. The research crystallizes the imperative and concrete path toward assimilating causal inference into machine learning. The motivation is meaningful, but I think the paper still has the following points to improve:

1. The author said “We propose combining external causal inference methods to model mechanisms with architecture designs that inherently learn stable causal features.” I think it is necessary to present the framework of this paper through diagrams, so that readers can have a clearer understanding of your work.
2. This article is not a comprehensive review, therefore the explanation of innovation points in this article is not in-depth enough. In Methodology, I think there should be a more detailed explanation of the framework used in this paper.