

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

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Potential competing interests: No potential competing interests to declare.

This article explored the integration of causality and machine learning techniques for observational study. It has a good review of the existing methods, however, there needs to be a major revision before the article can be published:

The objective, methods, and results are not clear.

1. The author spent half of the article reviewing existing literature and suddenly jumped to their study. Also, it is necessary to describe the model used and explain the reason for selecting those methods.
2. The question you are studying is ambiguous, you may provide some figures (e.g., DAGs) to explain the research questions. Table 1 is totally unreadable with no explanation of the variable names, the meaning of the values, etc.
3. The purpose of subsections like transfer learning and below is confusing, I suggest using a few sentences to describe rather than list them as separate sections as it will distract the main point you want to conclude.
4. I suggest combining the introduction, literature review, and theoretical framework into one section.