The Role of Synchronic Causal Conditions in Visual Knowledge Learning

Wenjie Niu

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Diachronic and Synchronic and SYN for the sake of succinctness but their re-1 Causal Conditions

spective roles will be obvious.

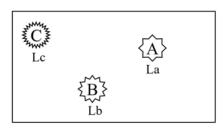


Figure 1: Example used to illustrate the idea of diachronic and synchronic causal conditions.

[1] Some previous work has shown that it is essential to separate two basic kinds of causal conditions the diachronic and synchronic causal conditions. We use a simple scenario in Figure refto illustrate this idea.

In Figure 1 it is shown that there are 3 objects, A, B, and C in an environment represented by the rectangle. Suppose we ignore the presence and influence of the rectangle and consider just the objects.

The idea of enabling causal conditions has been investigated by Abelson in an earlier effort. If we think of it in terms of counterfactual function, then it is like had it not been there, the diachronic cause would not have given rise to the effect. Its counterfactual causal role is the same as that of the diachronic causal condition had the diachronic cause not been there, the effect would not have taken place. In the following discussions we will not explicitly label DIA

References

[1] S.-B. Ho, "The role of synchronic causal conditions in visual knowledge learning," in The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, July 2017.