Dear Editor:

Please find attached our submission "Making, Updating, and Querying Causal Models using CausalQueries"

This is our third submission of this article, addressing issues raised by your team regarding the second submission.

We have significantly developed the package in light of these comments and pushed version1.2.1 to CRAN.

Based on last reviews we received we believe it might be useful to clarify two points:

First: The reviewer again requested a “better exploitation of R's classes and methods system.” We had previously sought to address this concern by providing additional classes for internal objects. The reviewer highlighted that many of these did not have many methods associated with them. This is correct. The reason for this is that these are internal objects that in general do not have to be accessed by users. To avoid confusion, we no longer supply these objects with a class, however we continue to make them easily accessible via two functions: `inspect` (which provides a summary of requested internally objects, inherited from summary(model)) and `grab` (which quietly returns requested internal objects).

We now clarify in the text (Box 1) that there are only two distinct types of object associated with CausalQueries: causal\_model and model\_query. These both come with summary, print, and plot methods. summary.causal\_model in particular includes extensive options should users want to investigate internal features in detail.

Second, the reviewer noted:

“Finally, for a model class, causal\_model clearly needs to have more methods (at least confint or alike for instance).”

For many packages the model class is used for “fitted models,” with coefficients, estimates, and so on.  In causal queries the “causal\_model” class is used for the causal model itself and not for specific queries that might be posed to the model. Specific queries are posed using query\_model and the resulting model\_query object contains summaries of queries posed, including credibility intervals, and so on. This object has a print, summary, and plot method associated with it.

We do appreciate that when seeing the term 'model' some users might expect that summary(model) would provide estimates, standard errors and so on. Instead summary(model) gives details on the model itself. To avoid confusion, summary(model) provides a note alerting users that querying the model

Other generous comments from the reviewer have been addressed, including the addition of a conclusion with pointers for areas of possible future expansion.

With thanks

Macartan Humphreys