ABSTRACT:

Impact analysis is an activity of assessing the effect of making a set of changes to a software system. Many approaches have been developed include performing impact analysis on a high level model that reflects to low level analysis using class interaction prediction. However, analysis from the model contains false results due to not all interactions between classes have impact to one another. In this paper we introduce a new impact analysis approach that is able to filter some false results using a set of impact prediction filters. The contributions of the paper are: (1) a new impact analysis approach; (2) a new set of impact prediction filters and; (3) evaluation results that show the new impact analysis approach improves the accuracy of the prediction results.