Introducing Confidence Threshold

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1 Results showing the effect of tuning confidence threshold

We introduce a tunable confidence threshold, representing the minimum confidence required in order to execute an action. This can be used to make the system more conservative. Increasing the confidence threshold improves precision by reducing the false positives at the cost of missing more relocations, thus reducing recall. The precision-recall trade-off on tuning this parameter can be observed in figure 1. Such tuning can improve the 1-step precision up to 89% and 2-step precision up to 80%, as shown in figure 1.

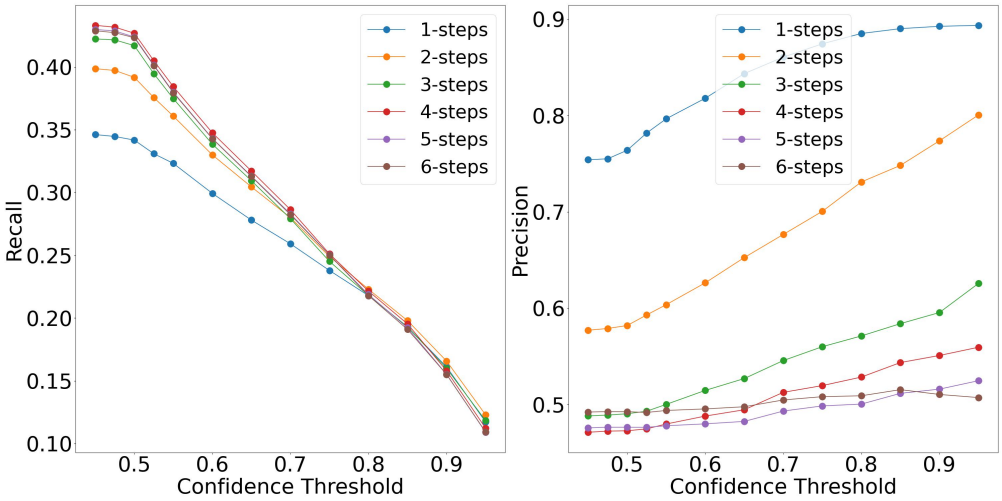

Figure 1: The effect of tuning confidence threshold showing the precision-recall tradeoff for 1-6 proactivity steps, i.e. 10 mins to 1 hour

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