Title: Choice set dependent performance

Abstract. A decision maker (DM) makes a choice from a set of projects with uncertain productivity. After the choice, she observes a signal about productivity and decides how much effort to put in. This paper analyzes the optimal decision of the DM who optimally filters information to deal with her post-decision cognitive dissonance. It is shown that the DM's optimal decision outcome exhibits choice-set-dependence, i.e., her utility and her output from the same project depends on unchosen alternatives in her choice set. I analyze how the size and the composition of a choice set could affect the DM's performance and utilize those findings to explore the optimal choice set design. This paper provides a framework to analyze the performance-enhancing effect of choice provision in the psychological literature.