

Collision Control: A Case for Active Psychophysics

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Classical psychophysics tends to focus on the open-loop relations between physical properties of a “stimulus” and human judgments. In active psychophysics we explore the closed-loop relations between perception and action. The *physics* in this program must consider physical aspects of the “stimulus” (e.g., optics) and physical constraints associated with the action system (e.g., braking dynamics). In addition, the closed-loop dynamic introduces intentions or goals as an additional constraint that must be addressed. This talk will summarize recent work in our lab to understand how human’s control collisions? I will try to convince you that interesting generalizations might be made to sports and driving (e.g., the design of automated braking systems).

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