

Is movement duration predetermined in visually guided reaching?

A comparison of finite- and infinite-horizon optimal feedback control

Longchuan Li^{*1}, Hiroshi Imamizu^{*2}, Hirokazu Tanaka^{*1}

^{*1} Japan Advanced Institute of Science and Technology

^{*2} The University of Tokyo

1. The question “whether brain prefixes a movement duration” can be answered by comparing finite-horizon control & infinite-horizon control.
2. These two theories is compared by analyzing the corrections against different perturbation onsets in this research.
3. Simulations under different theories are compared with experiment data.

