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ONLINE ISSN : 1349-6174

PRINT ISSN : 1348-8406

The Japanese Journal of Personality

Vol. 16 (2007) , No. 1 (2007) pp.56-65

[\[PDF \(269K\)\]](#) [\[References\]](#)**Prediction and Consequence of Self-oriented Action and Sense of Self-agency****An Examination with a Learning Task to Judge the Agent**[Tomohisa Asai](#)¹⁾ and [Yoshihiko Tanno](#)¹⁾

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(Received: 2006/09/18)

(Accepted 2007/04/04)

The purpose of the present study was to examine the mechanism that produced sense of self-agency, and investigate the role of learning in it. Sense of self-agency is the sense that "I am the one who is causing or generating an action." According to the forward model, sense of self-agency arises when predicted sensory feedback is coherent with actual sensory feedback. In the present study, participants pressed a key and a tone was generated. Consistent with the forward model, results showed that sense of self-agency was not the same as perception of delay. As learning progressed, sense of self-agency became stronger, but perception of delay showed no change. This indicated that the learning affected not actual but predicted sensory feedback, and consequently sense of self-agency changed. The results of the present study supported the forward model, and showed that learning could affect sense of self-agency.

Keywords: [sense of self-agency](#), [theory of motor commands](#), [forward model](#), [learning](#), [delay](#)

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To cite this article:

Tomohisa Asai and Yoshihiko Tanno, *The Japanese Journal of Personality*, Vol. **16**, p.56 (2007) .

doi:10.2132/personality.16.56

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