

## <<第七届国际认知科学大会论文集>>

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### 内容概要

第七届国际认知科学大会在北京开幕。  
来自全球二十多个国家和地区的数百名科学家在此次会议上共同探讨和交流认知科学前沿问题。  
大会组织了认知科学与脑成像、认知科学与教育、认知科学与精神健康、认知科学与信息科学、认知科学与社会科学等五大方面的学术报告。  
各国科学家们将讨论涉及认知科学的各种前沿科学问题，并特别突出认知科学高度跨学科的特点。

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## 章节摘录

The study of representations of sequence knowledge is a hot cognitive psychological issue in the field of implicit learning. The present study investigated implicit and explicit learning representations' difference in a modified serial reaction time task, using N2, P3, lateralized readiness potential (LRP) as index. 36 subjects were grouped randomly to intentional or incidental group, respectively. Subjects had to learn a 12-letter-long repeating sequence that was irregularly disrupted by deviating sequence, including perceptual deviant and motor deviant. After the task, all participants were asked to complete the generation task. Then explicit and implicit learner were separated with the scores. N2, P3 and Response-locked LRP's onset latency and mean amplitude were measured among three totally different sequence in distinct learning strategy. The result suggested that in the perceptual selection stage, the way to represent sequence knowledge between implicit and explicit learner was different, the motor representations played a more important role than the perceptual way in both ways to sequence learning. While in the response preparation stage, three kinds of sequences' onset latency and mean amplitude of LRP-R had no difference even under the distinct learning strategies. The perceptual deviant sequence had the longest preparation time than the motor deviant one, and the standard sequence had the shortest preparation time. While perceptual deviant sequence had a more negative amplitude than the other two, which had no difference between each other. ....

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