

A Study on the Correlation between Metacognition and Perceptual Learning

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Abstract

Even though it was established that metacognition plays a crucial role in self-regulated learning, little is known about the relationship of metacognition and perceptual learning. As an exploratory study, we intended to test whether a trial-by-trial retrospective metacognitive monitoring correlate positively to cognitive performance on visual perceptual learning. To test this hypothesis, 10 subjects participated in a visual perceptual learning in which they were required to provide their retrospective confidence rating on a trial-by-trial basis. Results indicated that there was no correlation between a trial-by-trial retrospective metacognitive monitoring and cognitive performance on visual perceptual learning. Possible reasons for the failure to find out any association were explored and directions for future research were also discussed.