

Abstract

Present study was designed to test whether there is an effect of the direction of arrays of source characters on the occurrence probability of illusory recognition of horizontal compound Chinese characters. In order to test the hypothesis that participants would respond faster and more accurate when two left-right compounded source characters were arranged horizontally, the experiment employed a character matching task with a within-subject design and adopted the materials from a previous well established study (Tsang & Chen, 2009). The results of the experiment rejected the proposed hypothesis. However, since the false alarm rates in all conditions were too high, indicating potential problems of the experiment such as uncommitted participants, no strong conclusion regarding to the topic should be drew from this study.