

### Abstract

Seven right-handers, seven left-handers and seven inconsistent left-handers drew circles with one hand and lines with the other hand at three different line-to-circle frequency ratios. During 1:1 line-to-circle frequency ratio, handedness effect was shown for three subject groups, resulting in asymmetry in coupling strength between two hands. More variation was found in the influence by the nondominant hand among three groups. During higher frequency, more circular distortion was found in the nondominant hand of right-handers and left-handers. Similar degree of distortion was found in both hands of inconsistent left-hander. Practice effect, which could lower the coupling between two hands, was also investigated.