

Az agykérgi lateralizáció különbségei a mentális forgatás nemek közötti összehasonlításában

DÓSA ZOLTÁN

*Sapientia - Erdélyi Magyar Tudományegyetem,
Műszaki és Humán Tudományok Kar, Marosvásárhely
e-mail: dosazoltan@ms.sapientia.ro*

Abstract: The behavioral data are supporting the assumption that there are significant gender-related differences in the mental rotation tasks. The studies attended by psychophysiological and brain-imaging methods allowed us to get closer to the causes of the observed differences, and functional differences can be caught beyond the differences of the activated brain structures. According to the new data the variances of male and female performances are related to the strategies and there are not of structural origins. The holistic and gestalt approach of males, connected to the increasing of stimuli complexity results in stronger right hemisphere activation and specific brain activation patterns, the serial and analytical approach of females also results in specific activation patterns and mostly balanced bilateral activation.

Keywords: mental rotation, lateralization, gender differences