



Creative and Cognitive Perception of the Planar Images

M. Fazlyyyakhmatov¹ and V. Antipov²

Kazan Federal University, Media Relations Department, Kazan, Russia

E-mail: ¹<mfazlyjy@kpfu.ru>, ²<vantipovkfu@mail.ru>

KEYWORDS Binocular Eye Tracker. Depth and Volume Creativity. Eye Movement. Relief Planar Images

ABSTRACT The present paper continues the investigation of the possibility of space perception in flat images (3D phenomenon). An attempt is made to interpret the new characteristics of visual perception in the analysis of eye movement. Selected experimental results applying stationary and portable binocular eye trackers, and also the conditions proving the perception of three-dimensional attributes of planar images, are provided. 3D raster images are employed to recognize the depth and volume perception. Many pieces of research were conducted on a statistical sample, including 80 respondents aged from 14 to 22 years, using a portable eye tracker. The teaching of students manifests the possibility of improving relief levels. It is shown that the students with the highest indices of relief have high levels of creativity. The eye movement results of third-year students show the perception of spatial attributes in planar images that possess some elements of a monocular pattern of images.