
Perceptual factors of prediction of human actions in social scene perception

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The study devoted to the individual's ability to recognize intentions and predict actions of characters of visually perceived social scenes. According to previous studies, prediction of the other's actions is founded on realizing semantic context of situation. Besides the prediction supposes targets selection (targets is the objects that predictable actions of character are directed on). We were elaborating an original modification of change detection procedure and using that in our investigation. The study shows that the character intentions recognition provides the «deep» analysis of target object's visual characteristics. As the result, stable representations of predictable actions objects are providing rapid searching of the target objects and their changes recognitions. One of the mechanisms, that provides efficacy of the other's action analysis during social scenes perception, is forming and maintaining of target objects representations in visual working memory. The study also shows that our elaborated experimental procedure may be successfully used for objective assessment of rapid visual prediction, that individual generates during complex dynamic events perception.

Key words: social situation, visual perception, action prediction, change detection, eye movement analysis

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