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The visual perception of a linear perspective in photography and cinema 6

***Abstract***

***In photographic and cinematographic images, the depth of space is transmitted through a linear perspective formed by the lens and recorded by a photosensitive layer.***

***The optical system of the eye builds the image on the retina. In this retina image there is a linear perspective. However, the image of objects synthesized by the brain from two different retina images and transmitted to the consciousness does not have the properties of linear perspective.***

***It is shown that the algorithm of brain processing of two retina images is such that the linear perspective in photographic and cinematographic images can contribute to the transmission of space depth, but can also distort space.***

***Translated with www.DeepL.com/Translator (free version)Keywords: cinematography, photography, linear perspective, vision, visual information, retinal image, form perception constant.***

***REFERENCES***

***1. Prikladnaya optika: Uchebnoe posobie / pod red. N.P. Zakaznova. 3-e izd., ster. SPb.: Lan', 2009. 320 p.***

***2. Raev O.N. Vospriyatie formy real'nogo ob"ekta i formy ob"ekta v ego fotograficheskom izobrazhenii / Innovatsionnye tekhnologii v kinematografe i obrazovanii: VI Mezhdunarodnaya nauchno-prakticheskaya konferentsiya, Moskva, 16–18 oktyabrya 2019 g.: Materialy i doklady. M.: KUNA, 2020. P. 177–188.***

***3. Raev O.N. Vospriyatie chelovekom formy predmeta / Zapis' i vosproizvedenie ob"emnykh izobrazhenii v kinematografe, nauke, obrazovanii i v drugikh oblastyakh: XI Mezhdunarodnaya nauchno-prakticheskaya konferentsiya, Moskva, 18–19 aprelya 2019 g.: Materialy i doklady. M.: KUNA, 2019. P. 51–64.***

***4. Raev O.N. Glubina prostranstva v kinofil'me / Innovatsionnye tekhnologii v kinematografe i obrazovanii: II Mezhdunarodnaya nauchno-prakticheskaya konferentsiya, Moskva, 21–25 sentyabrya 2015 g.: Materialy i doklady. M.: VGIK, 2015. P. 30–45.***

***5. Raev O.N. Osobennosti zapisi vneosevykh tochek izobrazheniya pri prodol'nom smeshchenii opticheskogo izobrazheniya, formiruemogo ob"ektivom, otnositel'no svetochuvstvitel'nogo sloya / Mir tekhniki kino. 2019. No 1(13). P. 19–23.***

***6. Raushenbakh B.V. Geometriya kartiny i zritel'noe vospriyatie. M.: Agraf, 2012. 240 p.***

***7. Rozhkova G.I., Matveev S.G. Zrenie detei: problemy otsenki i funktsional'noi korrelyatsii. M.: Nauka, 2007. 315 p.***

***8. Rok I. Vvedenie v zritel'noe vospriyatie: Kniga 1. / per. s angl. / pod red. B.M. Velichkovskogo, V.P. Zinchenko. M.: Pedagogika, 1980. 312 p.***

***9. Kh'yubel D. Glaz, mozg, zrenie / per. s angl. M.: Mir, 1990. 239 p.***

***10. Yarbus A.L. Rol' dvizhenii glaz v protsesse zreniya. M.: Nauka, 1965. 166 p.***