

## **S2-2.6**

# **Developing of algorithms for improving accuracy of search for biomarkers within results of the computed tomography**

O.S. Medvedev<sup>1</sup>, A.A. Birillo<sup>1</sup>, A.N. Dudzich<sup>2</sup>, V.L. Krasilnikova<sup>2</sup> and V.S. Asipovich<sup>1</sup>

<sup>1</sup> *Belarusian state university of informatics and radioelectronics, Department of Human Engineering and Ergonomics, Minsk, Belarus*

<sup>2</sup> *Belarusian medical academy of postgraduate education, Department of Ophthalmology, Minsk, Belarus*

Provided results of research for improvement of recognition accuracy of eyeballs and bone structures of the eye sockets. For the goal achievement was used deep learning of the neural network with and without use of augmentation. Shown, how expanding the training set improves neural network accuracy.