

Artificial intelligence now helps to detect osteoporosis and coronary heart disease

Moscow radiologists start using artificial intelligence algorithms to recognize signs of osteoporosis and coronary heart disease on computer tomograms. In the future, artificial intelligence services to be used in seven more new areas of medical examination.

The digital assistant, firstly, helps the physician to pay attention to changes that may go unnoticed due to a large flow of research or the human factor. This practically negates the risk of error. Secondly, artificial intelligence speeds up the process of describing the image, since it performs routine tasks for the physician, highlighting areas with possible pathologies. The patient, in turn, receives a better and faster diagnosis of the disease.

Picture 1 of Artificial intelligence now helps to detect osteoporosis and coronary heart disease

It is planned that artificial intelligence will be used for the analysis of CT/LDCT image (low-dose computed tomography) of the chest organs to detect emphysema of the lungs, aneurysm of the thoracic aorta and pulmonary hypertension. Using computer vision, CT and MRI-type brain scan will also be used to diagnose strokes, malignant neoplasms, multiple sclerosis, Alzheimer's disease. Artificial intelligence will be able to analyze MRI of the lumbosacral spine to detect hernias, protrusions, stenosis, as well as radiography of the musculoskeletal system to diagnose arthrosis, flat feet, fractures of limbs and vertebrae.

Neural networks pre-process the images and mark them up where the physician's increased attention is required. First of all, studies are sent to radiologists, on which are most likely pathological changes are detected. Doctors can access both original images and enhanced images processed by artificial intelligence services.

The use of innovative methods for the analysis of medical images in Moscow began in 2020. The city began to attract innovative companies to the project, which create and implement high technologies in the social sphere. Artificial intelligence services were integrated into a unified radiological information Service (ERIS EMIAS). They can be used by radiologists of all healthcare institutions connected to the system.

The implementing such solutions was made possible thanks to the unified digital healthcare platform, which was developed and are being developed by the Moscow Social Development Complex and the Information Technology Department.

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