

ABSTRACT

Master's dissertation: 107 with., 19 Fig., 33 tabl., 7 applications, 13 sources.

Topicality. The high results of using the approach of deep learning of models led to the creation of models with greater depth which, in turn, allowed to solve more complex problems. On the other hand, it also leads to an increase in the depth of the models, which increases complexity and reduces the execution time. To solve this delivery, it is fashionable to use compression of model volumes.

Relationship of work with scientific programs, plans, themes. The work was carried out at the Department of Automated Systems for Information Processing and Management of the National Technical University of Ukraine "Kyiv Polytechnic Institute. Igor Sikorsky" within the theme « Intelligent methods of programming, modeling and forecasting using probabilistic and linguistic approaches. State registration number 0117U000926»

The object of the research - the process of recruiting.

Subject of research - methods and models for the formation of personal recommendations.

The research methods methods of machine learning and neural network, as well as ways of teaching them for the automatic selection of vacancies for candidates.

The scientific novelty of the results is use the distillation of knowledge method and the use of the teacher-student for teaching neural network and modify them in the form of a regularizer of Gaussian noise and the choice of the architecture of the neural network in the context of practical tasks,

Publications

Talko Y.S. Compression methods of deep learning models based on teacher-student method [Electronic resource] // usim. - 2018.

Talko Y.S. Compression methods of deep learning models based on teacher-student method [Electronic resource] // ISMT. - 2018. – pp 152-156:

MODEL, DISTILLATION OF KNOWLEDGE, GAUSSIAN NOISE, DEEP LEARNING, NEURAL NETWORKS, NEURON