

Bachelor's thesis: 76 p., 35 fig., 6 tabl., 2 appendixes, 23 sources.

The topic of the research: "Neural networks for illustrations generation based on wordy description".

The object of research is methods of image generation based on wordy description.

The subject of the study is neural networks that are used for image synthesis.

The aim of the study:

- research tools for image generation based on wordy description;
- develop software that implements needed neural networks configurations.

Theoretical and methodological basis of the study are works of foreign scholars in the field of machine learning.

During the thesis was created software to generate images based on wordy description using existing datasets and was presented results of the program.

The methodology is implemented on the basis of already known algorithms and using own development.

The software is implemented using the programming language Python. The recommendations for further research are given.

NEURAL NETWORKS, DRAW MODEL, STACKGAN MODEL, IMAGE GENERATION, IMAGE SYNTHESIS