**AMLT ITMO 2022**

**Task #4**

**(Image Quality Analysis – is based on materials of the lecture/lab on 06.10)**

1. Collect the dataset of 20 color images from open sources. It can be various images of people/pets/nature/city etc.

2. Sort these images in the descending order according to your personal opinion about its **perceptual quality** <https://en.wikipedia.org/wiki/Image_quality>. For example, mark them from 5 to 1, where 5=excellent quality, 1=poor quality. Plot the marks as a captions for the images in the Notebook.

3. Evaluate No-Reference image quality metrics TV, BRISQUE and NIMA estimating their quality (use, for example, implementations from <https://github.com/photosynthesis-team/piq>, <https://github.com/aigagror/ML-Aesthetics-NIMA>).

4. Compute Pearson correlation coefficients between the metric scores and your personal estimates.

5. Choose the best metric, which is more correlated with the human opinion.

6. Complete a task in a single Jupyter Notebook.