

This bachelor's thesis follows up the recognition of eggs in the image. The goal was to create a group of programs that firstly captures image data, than finds eggs in them and finally shows the results in some user environment. We tested gradually different classification methods (template matching, logistic regression and neural network). We tried also different representations of the image such as matrix representation and ring projection, and various pre-processing of the image before the actual finding, we used grayscale, color spectra and edges detected by a high-pass or Kirsche detector. After testing all methods, we selected the best one and created the classification program itself. The most successful method was logistic regression with ring projection.