

Masters' thesis: 1 p., 27 tabl., 14 fig., 2 appendixes, 10 sources.

The subjects of this research are the methods of computer vision.

The purpose of this research is to develop an algorithm real time object tracking on video.

Explanatory note consists of four sections. In the first section the problem of object tracking is analyzed and formalized. The analysis and comparison of existing approaches and techniques of object tracking can be found in the second section. The algorithm and the architecture, performance and precision analysis of the developed application are described in the third section. The fourth section explains the idea and the marketing strategy of a start-up project.

TRACKING, COMPUTER VISION, OPTICAL FLOW, DESCRIPTOR,
TRAJECTORY PREDICTION