

Bachelor's thesis: 71 p., 14 fig., 6 tabl., 2 appendixes, 11 references.

Object of study – computer vision algorithm for pose estimation.

Subject of study – applying computer vision algorithm for spacecrafts docking problem.

Purpose of study – develop pose estimation algorithm and research possibility of applying it for spacecrafts docking problem.

Relevance of study – in our time pose estimation is an important problem for docking with uncooperated spacecrafts.

Results – creation algorithm for pose estimation of spacecrafts.

Further improvements – upgrading algorithm to work in noise, extra light, different background conditions.

COMPUTER VISION, POSE ESTIMATION, SPACECRAFTS DOCKING, KEY POINTS EXTRACTION, IMAGE PROCESSING