



Videogrammetry

CIVILEN 8454

Credit Hours:

3.00 - 3.00

Course Levels:

Graduate

Course Components:

Lecture

Course Description:

Optical flow; neuronal processing; measuring motion field; geometry of motion field; camera motion; rigid and nonrigid body motion; measurements from motion; block adjustment using motion.

Prerequisites and Co-requisites:

Prereq: 6451 and 7442.

Course Goals / Objectives:

- 3D Optical flow and 2D motion field
 - Geometry of 3D motion and its image
 - Measuring camera motion
 - Measuring 3D scene
 - State-of-the-art in research
-

Course Topics:

- 3D motion and its acquisition
 - Geometry of motion
 - 3D scene and camera motion recovery
 - Research articles and presentations
-

Designation:

Elective