

SYSTEMS DESIGN ENGINEERING

Advanced 3D Imaging

SYDE 770 - Topic 17 (reading course)

Spring

This is an advanced course aimed primarily for students with previous experience in 3D computer-vision and optical 3D shape-measurement techniques. Topics include advanced structured-light and fringe-projection phase shifting techniques; hybrid optical techniques based on: stereovision, structured-lighting, laser-camera range-sensing, and fringe-projection phase shifting; and surface fitting for model representation and range-image registration.

INSTRUCTOR: John Kofman

Email: jkofman@uwaterloo.ca