Computer Vision 2011: Proposed Projects (titles are paraphrased)

Registration and Detection in Array of Overhead Cameras
Richard Otap
Puskar Naha
Henry Duwe

Autonomous Helicopter Navigation using Vanishing Points, Object Detection
Young Min Ahn

De-noise, improve spatial resolution, perform segmentation for classes of FTIR Spectroscopy Data
Tan Nguyen

Visual Salience Engine Based on Social Interaction
Logan Niehaus

GPU Implementation of Deformable Object Detection
Daniel Liu

Compressive Inverse Light Transport
Xinqi Chu

Prediction of Gaze on Web Cams
Rohit Naini, Honghai Yu

Hardware implementation of graph cuts and stereo
Shang-nien Tsai, Jungwook Choi

Recover body shape and pose using Kinect sensor
Prateek Rungta

Cross-Category Knowledge Propagation for Learning Visual Concepts
GuoJun Qi

Shape-based Recognition
Saeed Maleki

Region-based recognition (group superpixels into objects)
Jia-bin Huang

Tracking tennis court and ball

Daniel Wolf and Rasmus Simander

Detecting Text in Natural Scenes
Cheng-Wei Lee

Multiple proposals
Quirin Scheitle and Tim Schack

Use image segmentation to improve Kinect depth maps and vice versa
Ammar Hussein and Adbul Dakkak

GPU implementation of deformable part detector
Daniel Liu