

### Project

- RGB-D image segmentation and object detection
- Depth image denoising and smoothing with Trilateral filter
- Depth image compression using geometrical wavelet
- Retinal vessel segmentation using Generalized Fuzzy C-Means clustering Algorithm with Improved Fuzzy Partitions
- head pose estimation using stereo camera and Microsoft Kinect
- Simulation and Performance Evaluation of Different Sensors Formations in the Line Follower Robot
- Robot motion planning and find best solution using Reinforcement Learning

### Presentation

- Multi Scale CRF for image segmentation ([ppt](#))
- Fast Primal Dual markov random field energy optimization ([ppt](#))
- RGB-D image segmentation using multi scale CRF ([ppt](#))
- Trilateral depth images denoising ([ppt](#))

### Online courses

## Projects

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- Discrete Inference and Learning in Artificial Vision (jan 2014) ( [coursera link](#))
- Probabilistic Graphical Models (jan 2014) ( [coursera link](#))
- Image and Video Processing: From Mars to Hollywood with a stop at the hospital (jan 2013) ( [coursera link](#))
- Machine Learning (sep 2012) ( [coursera link](#))
- Control of Mobile Robot (sep 2012) ( [coursera link](#))