Structure from Motion

Pinhole Camera: Test

Homogenous Coordinates: Test Intrinsic Parameters: Test Extrinsic Parameters: Test Epipolar Geometry: Test

Camera Calibration

Rig: Test

Stereo Matching

Binocular Stereo: Test Window Search: Test

Markov Random Field: Test

Graph Cut: Test

Image Classification

Test: Test

KNN

Hyperparameters: K and Norm(L1 better, reduces back-

ground noise)

Pros: Test

Cons: Test

Curse of Dimensionality: Test

SVM

Linear Classifier: Test

AdaBoost

Test: Test

Viola-Jones Face Detector

Test: Test

Decision Tree

Test: Test

Neural Network

Activation Functino: Test Convolutional: Test Output Size: Test Stride: Test Padding: Test

Object Detection

Test: Test

Active Contour

Test: Test

Semantic Segmentation

Markov Random Field: Smooth Sliding Window: Approach 1 Fully Convolutional: Approach 2

Instance Segmentation

Test: Test

Generative Models

Generative Adversarial Networks: Test Variational Autoencoder: Test

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