

Index

- activity topology 151, 166
- activity understanding 2
- alarm 14
- ambient security systems 1

- blob 73
- bounding box 78–80

- camera calibration 72, 77
- camera resolution 84
- clustering 55

- data fusion 13, 24
- Davies-Bouldin index 60
- degree of normality 117
- discriminant function 156

- embedded sensor 34
- entropy estimator 160
- event recognition 49

- Gaussian Mixture Model 190, 197
- ground truth 41, 56, 159

- Heterogeneous 183, 184, 191–193
- heterogeneous sensors 4
- Hidden Markov Model 191, 202
- hierarchical architecture 28
- histogram map 74
- human operator 84

- illumination condition 84, 95

- Jaccard index 59

- Kalman Filter 190, 197, 198
- knowledge acquisition 110
- knowledge discovery 53
- Kullback-Leibler divergence 65

- machine learning 49
- Markov model 149
- maximum-a-posteriori (MAP) classification 99
- monitoring 109
- MSER 190, 198–202
- Multi-Robot Monitoring 183–189, 191, 193, 195, 197, 199, 201–207, 209
- multi-sensory signals 2
- mutual information 161

- normality analysis 110
- normality constraint 115

- outlier 75, 97
- overlapping camera 154
- overlapping cameras 87

- pan-tilt-zoom camera 13
- pedestrian behavior 71
- performance evaluation 42
- Plan-View Map 198, 199
- public space 71

- radial basis function 55
- Receiver operating characteristics (ROC) curve 60

- segmentation algorithms 127
- sensor fusion 4
- situation awareness 13

- smart sensor 28, 34
- spatio-temporal information 131
- statistical analysis 51
- Stereo Camera 183, 185, 187, 197, 198, 204
- surveillance camera 84, 88
- surveillance network 148
- surveillance system 24, 88
- surveillance systems 106, 108, 116
- Task Assignment 187, 189, 196,
- tracking 107
- tracking process 124, 149
- trajectory analysis 50
- video surveillance 1
- Video-Surveillance 185–187