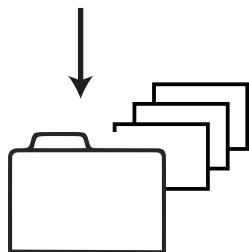


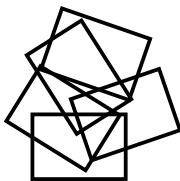


image

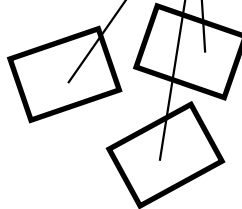
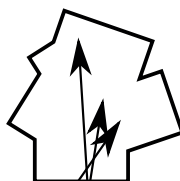


hard disk

map generation



map



position estimation

histogram extraction

histogram	x	y
	106	101
	116	134

training set