Chapter 1

Linear Regression

1.1 Fitting a robust regression model using RANSAC

Algorithm 1: RANdom SAmple Consensus (RANSAC) algorithm	
1 begin	
2	repeat
3	Select a random number of examples to be inliers and fit the model;
4	Test all other data points against the fitted model and add those points
	that fall within a user-given tolerance to the inliers;
5	Refit the model using all inliers;
6	Estimate the error of the fitted model versus the inliers;
7	until the performance meets a certain user-defined threshold or if a fixed
	number of iterations was reached;
8 end	