

CS215 Assignment 5

Estimation Transformations

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Question 1 : Graph put in the 'results' folder; name of file being 'q1.png'.

Interpretation : For finite values of N , relative error of Gaussian Prior MAP (i.e. MAP1) is minimum, then is for Uniform Prior MAP (i.e. MAP2) & MLE estimator has the highest relative error.

(i.) As N increases; relative errors decrease for all estimators and goes close to 0. (hence the errors also converge as N increases) & all estimators converge to ML estimator.

(ii) MAP1 is (Gaussian Prior MAP) is the most preferable estimate as it has the ~~set~~ least relative error among the 3 estimators, for all values of N plotted.