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USING CROSS-ENTROPY TO ASSESS ACCURACY OF POSITION ESTIMATORS

Abstract

In regard to assessing the accuracy of position estimators, although limitations in using Mean Squared Error (MSE) are known, comparing MSEs has, for a long time, been the most accepted approach. In this paper, we introduce the use of cross-entropy as a very robust alternative. We show the limitations of using MSEs and validate via simulation results that using a comparison of cross-entropies to identify the most accurate estimator is more robust than a comparison of MSEs.