Report: Exploring Non-Parametric Entropy Estimators and Bootstrap Enhancements

Mean Entropy for Estimators

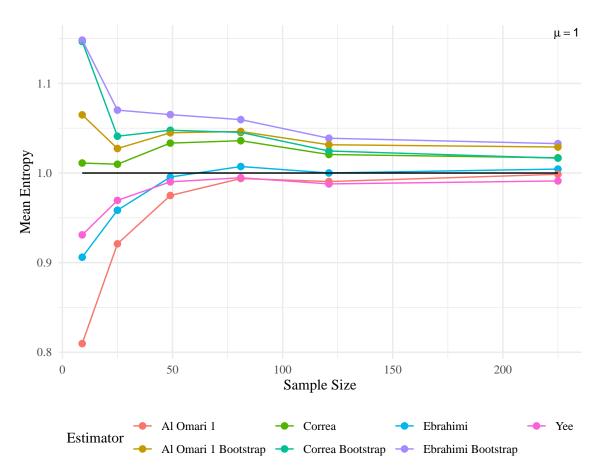


Figure 1: Mean entropy for Gamma SAR L=1 and $\mu=1$.

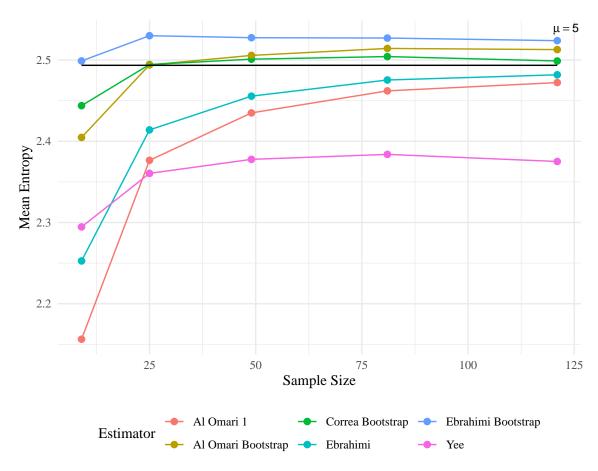


Figure 2: Mean entropy Gamma SAR for L=2 and $\mu=5$.

Results for Nonparametric Estimators with \mathcal{G}_I^0

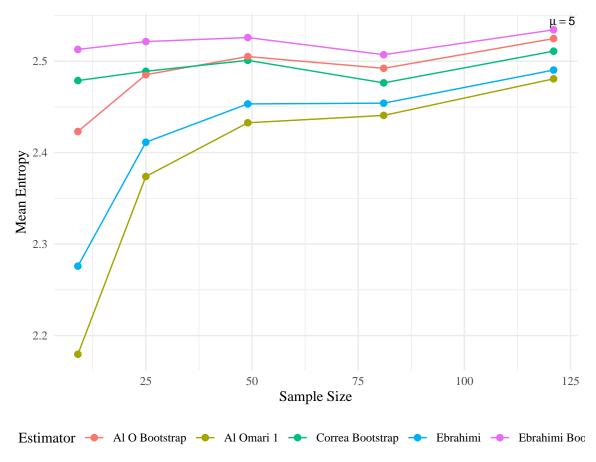


Figure 3: Mean entropy for GI0, with $L=2,\,\mu=5$ and $\alpha=-300.$

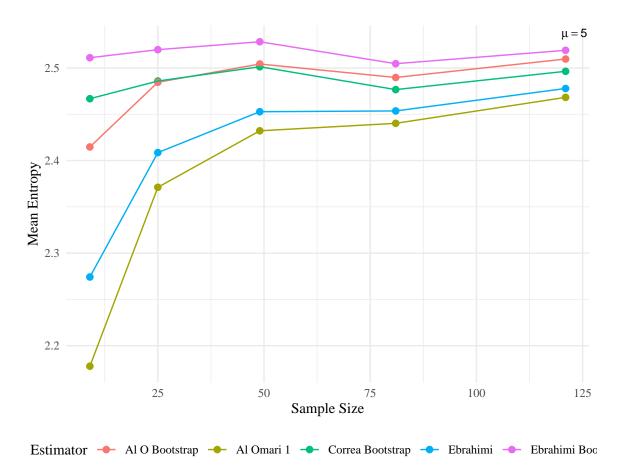


Figure 4: Mean entropy for GI0, with $L=2,\,\mu=5$ and $\alpha=-1000.$

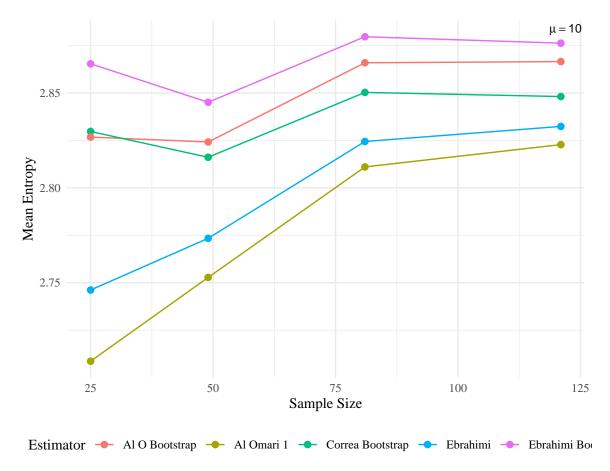


Figure 5: Mean entropy for GI0, with $L=5,\,\mu=10$ and $\alpha=-400.$

In the figure we can observe that when the parameter α goes to $-\infty$, the entropy of \mathcal{G}_I^0 is close to the entropy of Γ_{SAR} .

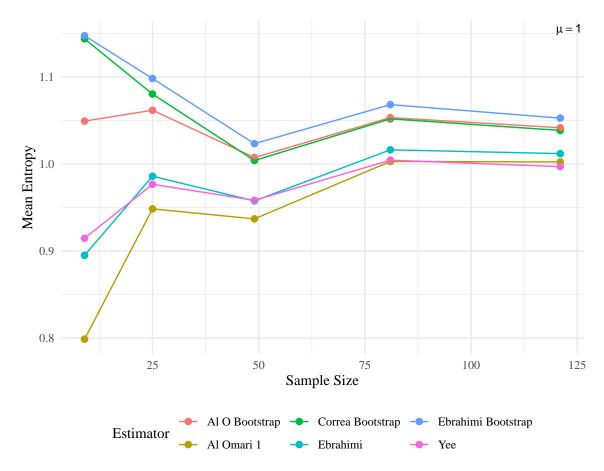


Figure 6: Mean entropy for GI0, with $L=1,\,\mu=1$ and $\alpha=-300.$

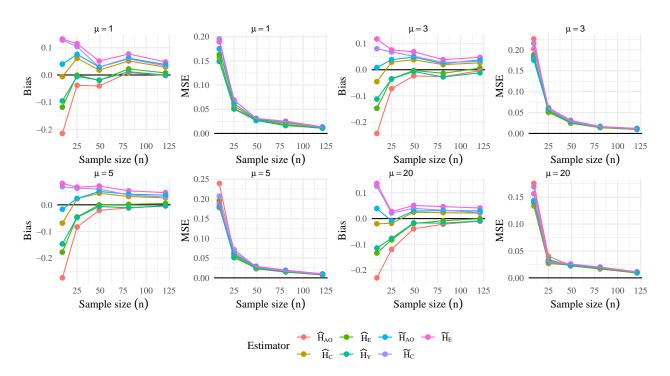


Figure 7: Bias and MSE of entropy estimators for G_I^0 , L=1, $\alpha=-20$.

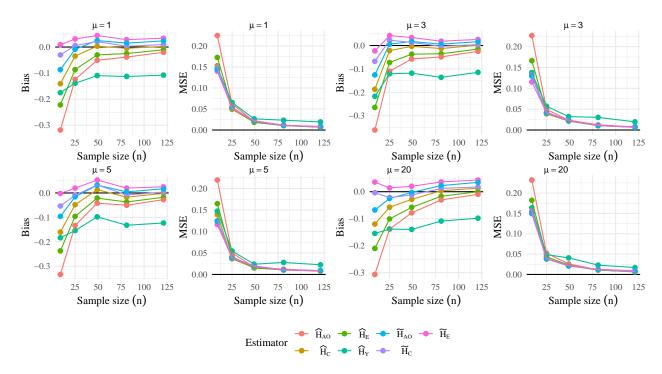


Figure 8: Bias and MSE of entropy estimators for G_I^0 , L=2, $\alpha=-20$.

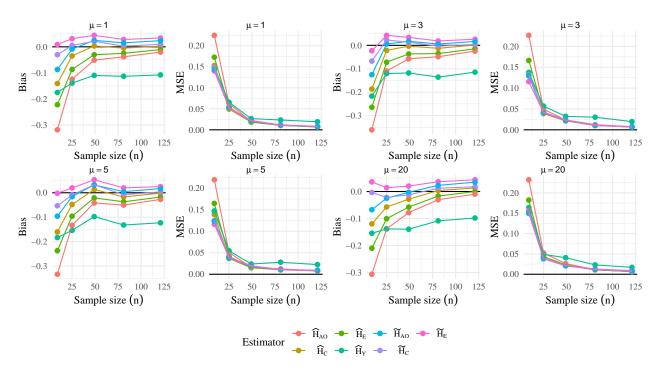


Figure 9: Bias and MSE of entropy estimators for G_I^0 , L=8, $\alpha=-20$.