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Original Article

Supplementary Material to “Robust Estimation for Non-Homogeneous Data and the Selection of the Optimal Tuning Parameter: The Density Power Divergence Approach”

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1. Histograms of optimal α values obtained using different pilot estimators and different contamination proportions

Figure 1. Histogram of optimal α values obtained using different pilot estimators based on 100 replications (sample size = 50) for $e_{err} = 0$ and $e_x = 0.05$

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Figure 2. Histogram of optimal α values obtained using different pilot estimators based on 100 replications (sample size = 50) for $e_{err} = 0$ and $e_x = 0.10$

Figure 3. Histogram of optimal α values obtained using different pilot estimators based on 100 replications (sample size = 50) for $e_{err} = 0$ and $e_x = 0.15$

Figure 4. Histogram of optimal α values obtained using different pilot estimators based on 100 replications (sample size = 50) for $e_{err} = 0$ and $e_x = 0.20$

Figure 5. Histogram of optimal α values obtained using different pilot estimators based on 100 replications (sample size = 50) for $e_{err} = 0.05$ and $e_x = 0$

Figure 6. Histogram of optimal α values obtained using different pilot estimators based on 100 replications (sample size = 50) for $e_{err} = 0.05$ and $e_x = 0.05$

Figure 7. Histogram of optimal α values obtained using different pilot estimators based on 100 replications (sample size = 50) for $e_{err} = 0.05$ and $e_x = 0.10$

Figure 8. Histogram of optimal α values obtained using different pilot estimators based on 100 replications (sample size = 50) for $e_{err} = 0.05$ and $e_x = 0.15$

Figure 9. Histogram of optimal α values obtained using different pilot estimators based on 100 replications (sample size = 50) for $e_{err} = 0.05$ and $e_x = 0.20$