

Robustness comparison of two error estimators

In a recent research, we have proposed two different error estimators for the reduced transfer functions of parametric linear systems. One is based on the dual-residual system; the other is based on the primal-residual system. Theoretically, they should have similar accuracy. Numerically, we find the primal-residual based estimator is more accurate. Same conclusions are drawn for three different examples. At present, there is no theoretical explanation for the numerical phenomena.

Primary author: Dr FENG, Lihong (MPI/CSC)

Presenter: Dr FENG, Lihong (MPI/CSC)

Track Classification: Talks