1086-90-1511   **Rebecca Stockbridge*** (`rstockbridge@math.arizona.edu`) and **Guzin Bayraksan** (`guzinb@sie.arizona.edu`). *Bias reduction in optimality gap estimation for stochastic programs.*

Monte Carlo sampling-based estimators of optimality gaps for stochastic programs are known to be biased. We present a method for reducing the bias of the estimators produced by the Averaged Two-Replication Procedure (A2RP) via a probability metrics approach, which can be done in polynomial time in sample size. Theoretical and computational results will be highlighted. (Received September 26, 2012)