

## BOUNDS FOR THE WEIGHTED GINI MEAN DIFFERENCE OF AN EMPIRICAL DISTRIBUTION

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*Abstract.* In the paper, we obtain various bounds for more general weighted Gini mean difference of an empirical distribution, which extend the results of Cerone and Dragomir in [2].

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### REFERENCES

- [1] P. CERONE, S. S. DRAGOMIR, *Bounds for the Gini mean difference of an empirical distribution*, Appl. Math. Lett. 19 (2006) 283–293.
- [2] P. CERONE, S. S. DRAGOMIR, *Bounds for the  $r$ -weighted Gini mean difference of an empirical distribution*, Math. Comput. Modelling 49 (2009) 180–188.
- [3] G. M. GIORGI, *Bibliographic portrait of the Gini concentration ratio*, Metron 48 (1990) 183–221.
- [4] G. M. GIORGI, *Il rapporto di concentrazione di Gini*, Libreria Editrice Ticci, Siena, 1992.
- [5] G. A. KOSHEVOY, K. MOSLER, *Multivariate Gini indices*, J. Multivariate Anal. 60 (1997) 252–276.
- [6] F. NYGÅRD, A. SANDSTRÖM, *Measuring Income Inequality*, Almqvist and Wiksell, Stockholm, 1981.