CONVERSE TO THE SHERMAN INEQUALITY WITH APPLICATIONS

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Abstract. In this paper we proved a converse to Sherman’s inequality. Using the concept of f-divergence we obtained some inequalities for the well-known entropies. We also introduced a new entropy by applying the Zipf-Mandelbrot law and derived some related inequalities.


Keywords and phrases: Sherman inequality, Majorization inequality, Jensen inequality, f-divergence, Zipf-Mandelbrot entropy, convex function.

REFERENCES


