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An Extension of the Hermite-Hadamard Inequality and an Application for Gini and Stolarsky Means

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Abstract:

In this paper we extend the Hermite-Hadamard inequality

$$f\left(\frac{p+q}{2}\right) \leq \frac{1}{q-p} \int_p^q f(x) dx \leq \frac{f(p)+f(q)}{2}$$

for convex-concave symmetric functions. As consequences some new inequalities for Gini and Stolarsky means are also derived.



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