SCHUR–CONVEXITY OF ČEBIŠEV FUNCTIONAL

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Abstract. In this paper the Čebišev functional $T(f,g;a,b)$ is regarded as a function of two variables

$$T(f,g;x,y) = \frac{1}{y-x}\int_x^y f(t)g(t)dt - \left(\frac{1}{y-x}\int_x^y f(t)dt\right)\left(\frac{1}{y-x}\int_x^y g(t)dt\right),\ (x,y) \in [a,b]\times[a,b]$$

The property of Schur-covexity (Schur-concavity) of this function is considered. Some applications for the means are pointed out.

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