

A NOTE ON INTEGRAL INEQUALITIES INVOLVING TWO LOG-CONVEX FUNCTIONS

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Abstract. The main aim of the present note is to establish new Hadmard like integral inequalities involving two log-convex functions.

Mathematics subject classification (2000): 26D15, 26D99.

Key words and phrases: integral inequality, log-convex functions, Hadamard like, Geometric mean, Logarithmic mean.

REFERENCES

- [1] S. S. DRAGOMIR AND B. MOND, *Integral inequalities of Hadmard type for log-convex functions*, Demonstratio Mathematica, **31** (1998), 354–364.
- [2] S. S. DRAGOMIR, *Refinements of the Hermite-Hadamard integral inequality for log-convex functions*, RGMIA Research Report collection, Vol 3, No. 4 (2000), 527–533.
- [3] S. S. DRAGOMIR AND C. E. M. PEARCE, *Selected Topics on Hermite-Hadamard Inequalities and Applications*, RGMIA Monographs, Victoria University, 2000
- [4] J. E. PEČARIĆ, F. PROSCHAN AND Y. L. TANG, *Convex functions, partial orderings and statical Applications*, Academic Press, New York, 1991
- [5] D. S. MITRINOVIĆ, J. E. PEČARIĆ AND A. M. FINK, *Classical and new Inequalities in Analysis*, Kluwer Academic Publishers, Dordrecht, 1993