

REFINEMENTS OF GENERALIZED HÖLDER'S INEQUALITY

JING-FENG TIAN AND XI-MEI HU

Abstract. In this paper, we present some refinements of a generalized Hölder's inequality, which is due to Vasić and Pečarić.

Mathematics subject classification (2010): Primary 26D15; Secondary 26D10.

Keywords and phrases: Hölder's inequality, refinements, generalization.

REFERENCES

- [1] S. ABRAMOVICH, J. PEČARIĆ AND S. VAROŠANEC, *Continuous sharpening of Hölder's and Minkowski's inequalities*, Math. Inequal. Appl., **8**, 2 (2005), 179–190.
- [2] J. M. ALDAZ, *Self-improvement of the inequality between arithmetic and geometric means*, J. Math. Inequal., **3**, (2) (2009), 213–216.
- [3] E. F. BECKENBACH AND R. BELLMAN, *Inequalities*, Springer-Verlag, Berlin, 1983.
- [4] G. H. HARDY, J. E. LITTLEWOOD AND G. PÓLYA, *Inequalities, second ed.*, Cambridge University Press, UK, 1952.
- [5] L. HORVÁTH AND J. PEČARIĆ, *A refinement of the discrete Jensen's inequality*, Math. Inequal. Appl., **14**, 4 (2011), 777–791.
- [6] M. KLARIČIĆ BAKULA, A. MATKOVIĆ AND J. PEČARIĆ, *On the Jensen-Steffensen inequality for generalized convex functions*, Period. Math. Hung., **55**, 1 (2007), 19–34.
- [7] J. MATKOWSKI, *A converse of the Hölder inequality theorem*, Math. Inequal. Appl., **13**, 1 (2009), 21–32.
- [8] D. S. MITRINOVIĆ, J. E. PEČARIĆ AND A. M. FINK, *Classical and New Inequalities in Analysis*, Kluwer Academic, Dordrecht, 1993.
- [9] D. S. MITRINOVIĆ AND P. M. VASIĆ, *Analytic Inequalities*, Springer-Verlag, New York, 1970.
- [10] P. M. VASIĆ, J. E. PEČARIĆ, *On the Jensen inequality for monotone functions*, An. Univ. Timișoara Ser. Șt. Matematică, **17** (1) (1979), 95–104.