SOME NEW HERMITE–HADAMARD TYPE INEQUALITIES VIA K–FRACTIONAL INTEGRALS CONCERNING DIFFERENTIABLE GENERALIZED–M–(h^p_1, h^q_2; (η_1, η_2))–CONVEX MAPPINGS

ARTION KASHURI AND ROZANA LIKO

Abstract. The authors discovered a new identity concerning differentiable mappings defined on m–invex set via k–fractional integrals. By using the obtained identity as an auxiliary result, some new estimates with respect to Hermite-Hadamard type inequalities via k–fractional integrals for generalized-m–(h^p_1, h^q_2; (η_1, η_2))–convex mappings are presented. It is pointed out that some new special cases can be deduced from main results. At the end, some applications to special means for different positive real numbers are provided as well.


Keywords and phrases: Hermite-Hadamard inequality, Hölder’s inequality, Minkowski inequality, power mean inequality, k–fractional integrals, m–invex.

REFERENCES


