HERMITE–HADAMARD INEQUALITY FOR POINT–WISE CONVEX MAPS AND LEGENDRE–FENCHEL CONJUGATION

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Abstract. In the present paper, Hermite-Hadamard inequality for point-wise convex maps is given. Jensen type inequality for the Legendre-Fenchel conjugation is also established. Applications are given to the case of quadratic functionals and positive operators.


Keywords and phrases: Hermite-Hadamard inequality, point-wise convex maps, convex analysis, Legendre-Fenchel conjugation, operator and functional means.

REFERENCES