ON WEIGHTED INTEGRAL AND DISCRETE OPIAL–TYPE INEQUALITIES

Maja Andrić, Josip Pečarić and Ivan Perić

Abstract. In this paper some multidimensional integral and discrete Opial-type inequalities due to Agarwal, Pang and Sheng are considered. Theirs generalizations and extensions using sub-multiplicative convex functions, appropriate integral representations of functions, appropriate summation representations of discrete functions and inequalities involving means are presented.


Keywords and phrases: Opial’s inequality, Jensen’s inequality, integral inequality, discrete inequality, multidimensional inequality.

REFERENCES