MULTIDIMENSIONAL HARDY–TYPE INEQUALITIES
ON TIME SCALES WITH VARIABLE EXPONENTS

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Abstract. A new Jensen inequality for multivariate superquadratic functions is derived and proved. The derived Jensen inequality is then employed to obtain the general Hardy-type integral inequality for superquadratic and subquadratic functions of several variables.


Keywords and phrases: Multidimensional inequalities, Jensen’s inequality, Hardy-type inequalities, time scales, superquadratic functions.

REFERENCES
