İSTANBUL ANALYSIS SEMINARS

GENERALIZED DYNAMIC INEQUALITIES AND APPLICATIONS

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Abstract: Beginning with a survey of existing diamond-alpha type dynamic inequalities, we establish some new dynamic Opial-type diamond-alpha inequalities on time scales. Our results in special cases yield some of the recent results on Opial's inequality and also provide new estimates on inequalities of this type. Also, we introduce an example to illustrate our result. We extend our generalized (diamond-alpha) type dynamic inequalities to cover Grűss type inequalities as well.

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