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Mehmet Unal* (munal@bahcesehir.edu.tr), Faculty of Engineering, Ciragan Cad. No 4-6, Besiktas, 34353 Istanbul, Turkey. *Integral inequalities for certain nonlinear systems on time scales.*

we obtain integral inequalities for certain nonlinear systems on an arbitrary time scale \mathbb{T} by using elementary time scale calculus. These inequalities enable us to obtain a criterion of disconjugacy for such systems. Special cases of our results contain the classical Lyapunov inequality for both differential and difference equations. (Received September 18, 2009)