

Accepted Manuscript

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PII: S0378-4754(17)30026-5

DOI: <http://dx.doi.org/10.1016/j.matcom.2016.09.016>

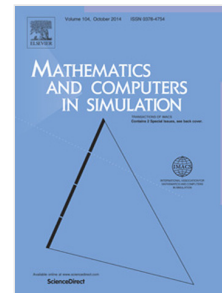
Reference: MATCOM 4424

To appear in: *Mathematics and Computers in Simulation*

Received date: 22 August 2013

Revised date: 1 April 2015

Accepted date: 30 September 2016



Please cite this article as: Q. Wang, Z. Liu, Existence and stability of positive almost periodic solutions for a competitive system on time scales, *Math. Comput. Simulation* (2017), <http://dx.doi.org/10.1016/j.matcom.2016.09.016>

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Existence and stability of positive almost periodic solutions for a competitive system on time scales

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Abstract: This paper concerns with the asymptotic behaviors of an almost periodic competitive system on time scales. By employing time scale calculus theory and Lyapunov functional method, a good understanding of the existence and uniformly asymptotic stability of unique positive almost periodic solution of the system is obtained. Also, two examples together with their numerical simulations illustrate the feasibilities of our analytical results.

Keywords: Competitive system; Time scales; Almost periodic solution; Uniformly asymptotic stability.

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