PRACTICAL STABILITY OF IMPULSIVE CONTROL SYSTEMS WITH MULTIPLE TIME DELAYS

Imen Ellouze[1] and Mohamed Ali Hammami[2]

[1]Department of Mathematics
Faculty of Sciences of Sfax, University of Sfax, Tunisia

[2]Department of Mathematics
Faculty of Sciences of Sfax, University of Sfax, Tunisia
Corresponding author email:imen_ellouz@yahoo.fr

Abstract. This paper concerns the problem of global uniform practical exponential stability for impulsive control systems with multiple bounded time-varying delays. The stability analysis is based on the second Lyapunov method. Moreover, two numerical examples are worked out to demonstrate the main results.

Keywords. Time-varying delay system, impulsive control system, Lyapunov-Krasovskii functional, practical exponential stability.

AMS (MOS) subject classification: 93D05, 93D09, 93D15, 34D23.

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