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Comments and an improved result on “Stability analysis for continuous system with additive time-varying delays: a less conservative result”. (English) [Zbl 1334.34161](#)

Appl. Math. Comput. 241, 42-46 (2014).

Summary: This paper points out a technical problem in the theorem and proof in [*R. Dey et al., ibid.* 215, No. 10, 3740–3745 (2010; [Zbl 1190.34089](#))]. Furthermore, by employing a newly-proposed integral inequality, an improved stability criterion for a continuous linear system with two additive time-varying delays is presented. A numerical example is given to show the effectiveness of the proposed result.

MSC:

[34K20](#) Stability theory of functional-differential equations

Cited in **9** Documents

Keywords:

additive time-delays; delay-dependent stability; Lyapunov-Krasovskii functional; linear matrix inequality (LMI)

Full Text: [DOI](#)

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