



Corrigendum to the paper: New conditions for the exponential stability of fractionally perturbed ODEs, EJQTDE, No. 84 (2018), 1–14

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Abstract. This paper serves as a corrigendum to the paper [*Electron. J. Qual. Theor. Differ. Equ.* 2018, No. 84, 1–14]. We present here a corrected version of Theorem 3.1 and Theorem 5.1.

Keywords: fractional differential equation, Riemann–Liouville integral, exponential stability.

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“Denote by $\Psi(t)$ the right-hand side of this inequality. Then” (page 7, after the inequality (3.15)) must be replaced by “If $\Psi(t) = \sup_{0 \leq \sigma \leq t} \|x(\sigma)\|$, then”.

“Since the function $\Psi(t)$ is nondecreasing and” (page 7, after the inequality (3.16)) must be replaced by “Since”.

“ $\int_0^t e^{-\rho(t-s)} |T - s|^{\ominus}$ ” must be replaced by “ $\int_0^t e^{-\rho(t-s)} |t - s|^{\ominus}$ ”.

“ $\forall t \in [0, T]$ ” in the inequality (3.22) (page 8) must be replaced by “ $\forall t \geq 0$ ”.

“Since the right-hand side of (3.8) is independent of T this inequality holds for all $t \in [0, \infty)$ ” (page 8) must be deleted.

“Denote by $\Phi(t)$ the right-hand side of the inequality (5.12). Hence if $K = (1 - G(A(\cdot), F, f))^{-1}$, then from this inequality we have” (page 10, after the inequality (5.12)) must be replaced by “Hence if $K = (1 - G(A(\cdot), F, f))^{-1}$ and $\Phi(t) = \sup_{0 \leq \sigma \leq t} \|x(\sigma)\|$, then from the above inequality we have”.

All the results remain true and after the above mentioned corrections in the proofs of Theorem 3.1 and Theorem 5.1 of [1], respectively, these proofs are correct.

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References

- [1] M. MEDVEĎ, E. BRESTOVANSKÁ, New conditions for the exponential stability of fractionally perturbed ODEs, *Electron. J. Qual. Theor. Differ. Equ.* **2018**, No. 84, 1–14. <https://doi.org/10.14232/ejqtde.2018.1.84>; MR3863878;