CORRIGENDUM: A CAUCHY PROBLEM FOR SOME FRACTIONAL DIFFERENTIAL EQUATIONS

GASTON M. N'GUÉRÉKATA*
Department of Mathematics
Morgan State University
Baltimore, MD 21251, USA

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Abstract

We report and correct an error that occurs in our recent paper '*A Cauchy problem for some fractional differential abstract equation with nonlocal condition* published in *Nonlinear Analysis*'.

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Keywords: Cauchy problem, nonlocal conditions, fractional differential equations, Krasnoselkii theorem.

1 Corrigendum

The aim of this corrigendum is to report and correct an error that occurs in the paper [G. M. N'Guérékata, A Cauchy problem for some fractional differential abstract equation with nonlocal condition. *Nonlinear Anal.* **70** (2009), 1873-1876.]

The proofs of the main results are actually based on a version of the Ascoli-Arzela Theorem which is valid only in finite dimensional space. Consequently the whole work is to be considered exclusively in such spaces. Also the derivative here is understood in Caputo's sense.

A forthcoming paper will discuss the infinite dimensional case under weaker conditions.

References

[1] G. M. N'Guérékata, A Cauchy problem for some fractional differential abstract equation with nonlocal condition, *Nonlinear Anal.* **70** (2009), 1873-1876.

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*E-mail address: Gaston.N'Guerekata@morgan.edu