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## Existence of solution for Hilfer fractional differential problem with nonlocal boundary condition

*Hanan A. Wahash, Mohammed S. Abdo, Satish K. Panchal, Sandeep P Bhairat*

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## Abstract

This paper is devoted to studying the existence of a solution to Hilfer fractional differential equation with nonlocal boundary condition. We use the equivalent integral equation to study the considered Hilfer differential problem with nonlocal boundary condition. The M\"{o}nch type fixed point theorem and the measure of the noncompactness technique are the main tools in this study. We demonstrate the existence of a solution with a suitable illustrative example.

INFORMATION

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## Keywords

fractional differential equations, Hilfer fractional derivatives, Existence, Fixed point theorem

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