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Submission

WASET <info@mg.waset.org>
To: jabar.hassan@su.edu.krd

Wed, Oct 01, 2023 at 2:34 PM

Dear Dr. Jabar Hassan,

You have one new message in your message box on https://waset.org/profile/messages

Thank you for completing the review of the submission, "Unraveling Forward and Backward Source Problems for a Nonlocal Integrodifferential Equation: A Journey through Operational Calculus for Dzherbashian-Nersesian Operator"

Abstract: This article primarily aims at introducing a novel operational calculus of Mikusinski's type for the Dzherbashian-Nersesian operator. Using this calculus, we are able to derive exact solutions for the forward and backward source problems of a differential equation that features Dzherbashian-Nersesian operator in time and intertwined with nonlocal boundary conditions. The initial condition is expressed in terms of Riemann-Liouville integral. Solutions are presented using Mittag-Leffler (ML) type functions. The outcomes related to the existence and uniqueness subject to certain conditions of regularity on the input data are developed.

for WASET International Science Conference on October 16-18, 2023. We appreciate your contribution to the quality of the work that we publish.

If you have any questions, please do not hesitate to contact us at
https://waset.org/profile/messages/creat Best regards

WASET.org Support Team

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WASET <info@mg.waset.org>
To: jabar.hassan@su.edu.krd, jshm97@mst.edu

Wed, Oct 01, 2023 at 2:45 PM