COUPLED HILFER AND HADAMARD RANDOM FRACTIONAL DIFFERENTIAL SYSTEMS WITH FINITE DELAY IN GENERALIZED BANACH SPACES

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Abstract. This article deals with some questions of existence and uniqueness of random solutions for some coupled systems of random Hilfer and Hilfer–Hadamard fractional differential equations with finite delay. We use some generalizations of classical random fixed point theorems on generalized Banach spaces.


Keywords and phrases: Fractional differential equation, left-sided mixed Riemann–Liouville integral of fractional order, left-sided mixed Hadamard integral of fractional order, Hilfer fractional derivative, Hadamard fractional derivative, Hilfer–Hadamard fractional derivative, coupled system, generalized Banach space, delay, random fixed point.

REFERENCES


