SOLVABILITY OF NONLINEAR HYBRID FRACTIONAL DIFFERENTIAL EQUATIONS VIA FIXED POINT THEOREM

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Abstract: In this article, we generalized Darbo's fixed point theorem and establish the existence of solutions of fractional hybrid differential equations. The proof relies on Darbo's fixed point theorem, and the solvability is investigated in the tempered sequence space ℓ_p^α. An illustrative example is provided to verify the applicability of our results.