

**Hamoud, Ahmed A.; Khandagale, Amol D.; Ghadle, Kirtiwant P.**

**Existence and uniqueness of solutions for nonlinear mixed Volterra-Fredholm integro-differential equations.** (English) Zbl 1481.65267

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**Summary:** This paper establishes some important latest innovations in the existence and uniqueness results by means of Krasnoselskii's fixed point and the Banach fixed point theorems for Caputo fractional Volterra-Fredholm integro-differential equations with initial condition. New conditions on the nonlinear terms are given to pledge the equivalence. Finally, an illustrative example is also presented.

**MSC:**

65R20 Numerical methods for integral equations

45J05 Integro-ordinary differential equations

**Keywords:**

Caputo fractional derivative; Volterra-Fredholm integro-differential equation; Krasnoselskii's fixed point theorem; Banach fixed point theorem

**Full Text:** [Link](#)