EXISTENCE RESULTS AND CONTINUITY DEPENDENCE OF SOLUTIONS FOR FRACTIONAL EQUATIONS

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Abstract. Using two fractional-order integral inequalities we investigate the existence and uniqueness of solutions of the fractional nonlinear Volterra integral equation and the fractional nonlinear integrodifferential equation in Banach space $C_\xi$, using an adequate norm, $\| \cdot \|_\xi^\infty$. Besides, we study the solution estimate and investigate their continuous dependence.


Keywords and phrases: Fractional differential equations, fractional integrodifferential, existence and uniqueness, estimate and continuous dependence.

REFERENCES


