

## Existence and Uniform Convergence of Solutions for Riesz-Caputo Fractional Differential Equations

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### Abstract

In this talk we present some existence and uniform convergence results for a class of Riesz-Caputo fractional differential equations. We make use of suitable fixed point theorems and appropriate integral inequalities. Some theoretical and numerical examples are provided.

**Mathematics Subject Classification:** 26A33, 34B15.

**Keywords and phrases:** Initial value problem, Riesz-Caputo fractional derivative, approximation, uniform convergence, solution, fixed point.

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