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Existence of Solutions to Variable Order Fractional Differential Equations with Integral Boundary Conditions

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ABSTRACT

In this manuscript, we examine the existence of solutions to the variable order fractional differential equations (VO-FDEs) with boundary conditions. Firstly, we reduce VO-FDE into equivalent integral equation. Afterwards, the existence results are established by using fixed point theorem. At last, we set up an example to illustrate the observed results.

Keywords: Fractional differential equations; Integral boundary conditions; Fixed point theorem

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