## Fractional differential inclusions with multi-point boundary conditions involving Hilfer-Hadamard derivative

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January 17, 2022

## Abstract

In this paper, we studied the existence and uniqueness result of solutions for boundary value problems for Hilfer-Hadamard type fractional differential inclusions with multi-point boundary conditions, in the first approach we deal with a non-convex valued right hand side and in the second approach we consider the Carath\'eodory case. Finally the compactness of solution sets is also obtained.

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