Invited Talk-03

Fractional Calculus: Theory, Method and Applications

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A B S T R A C T

In this talk, the conformable derivative and its applications, and some models with fractal-fractional derivatives will be discussed. Also, the reproducing kernel Hilbert space method to these models will be illustrated. The effect of the fractional order and the fractal dimension will be checked. The final section is the presentation of the numerical simulations to show how accurate the suggested approaches are.

Keywords: Fractal-fractional derivatives, Hilbert space, Numerical simulations, Conformable derivative.

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