

Invited Talk-09

Fractional Derivative Approximations and Applications

Dr. Harendra Singh

Assistant Professor & Head, Department of Mathematics, Post Graduate College,
Ghazipur U. P.-233001

ABSTRACT

In this talk, different types of fractional derivatives and the motivation behind fractional derivatives, and their approximations using orthogonal polynomials will be discussed. Further, a comparison of these derivatives will be highlighted. In the end, some real-life applications of fractional derivatives will be illustrated.

Keywords: Riemann-Liouville fractional derivatives, Approximation, Fractional differential equations.

