Abstract

This paper targets to investigate the numerical solution of n-th order fuzzy differential equations with fuzzy environment using Homotopy Perturbation Method (HPM). Triangular fuzzy convex normalized sets are used for the fuzzy parameter and variables. Obtained results are compared with the existing solution depicted in term of plots to show the efficiency of the applied method.

References

Numerical Solution of n-th Order Fuzzy Linear Differential Equations by Homotopy Perturbation Method


**Index Terms**

Computer Science

Algorithms

**Keywords**

n-th order fuzzy linear differential equations  Fuzzy Number  Triangular Fuzzy Number  Homotopy Perturbation Method (HPM)