Abstract

In this paper, the Legendre wavelet method (LWM) and He's Homotopy perturbation method (HPM) are applied to approximate solution for linear fractional integro-differential equation with initial condition. A comparison between these methods takes place. Numerical examples are presented to illustrate the efficiency and accuracy of the proposed methods.

References

- E. A. Rawashdeh, Legendre Wavelet method for fractional integro-differential


Index Terms

Computer Science

Applied Mathematics

Keywords

Fractional integro-differential equations  Legendre wavelet method  He's homotopy perturbation method  Caputo fractional derivative  Riemann-Liouville.