عنوان مقاله:

A numerical method based on Chebyshev polynomials for solving a class of fuzzy Fredholm integro-di erential equations of fractional orders

محل انتشار:

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خلاصه مقاله:

In this paper, rst, we introduce a new classes of fuzzy fractional Volterra-Fredholm integro-di erential equations as where the operator gHDq is a di erential operator in the sense of a given fractional derivative of order q. Then, we present a new approach based on the fuzzy Chebyshevpseudo-spectral numerical method to solve linear and nonlinear fractional-order integro- di erential equations of Volterra type. Finally, some fractional di erential equations .are provided and analyzed numerically

کلمات کلیدی:

Fuzzy fractional-order integro di erential equations of Volterra type; Fractional derivative; Generalized Hukuhara di .erentiability; Generalized fuzzy Caputo di erentiabil- ity

لینک ثابت مقاله در پایگاه سیویلیکا: