SOLVING FRACTIONAL DIFFERENTIAL-ALGEBRAIC EQUATIONS

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ABSTRACT

In this paper, the Said Ball curve (SBC) is implemented to give approximate solutions for fractional differential-algebraic equations (FDAEs). This methods in applied mathematics can be utilized as approximated appoach for obtaining approximate solutions for different types of fractional differential equations. Some illustrative examples are included to demonstrate the validity and applicability of the suggested approach.
Keywords: Fractional differential equation, Said Ball curve