عنوان مقاله:

Spline Collocation for Volterra - Fredholm Integro-Differential Equations

محل انتشار:

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خلاصه مقاله:

A collocation procedure is developed for the linear and nonlinear Volterra - Fredholm integro-differential equations, using the globally defined B-spline and auxiliary basis functions. The solution is collocated by cubic B-spline and the integrand is approximated by the Newton-Cotes formula. The error analysis of proposed numerical method is studied theoretically.

کلمات کلیدی:

Volterra-Fredholm integro-differential equations; Cubic B-spline Newton-Cotes formula, Convergence analysis

لینک ثابت مقاله در پایگاه سیویلیکا:

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