

عنوان مقاله:

Convergence of integro quartic and sextic B-spline interpolation

محل انتشار:

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خلاصه مقاله:

In this paper, quadratic and sextic B-splines are used to construct an approximating function based on the integral values instead of the function values at the knots. This process due to the type of used B-splines (fourth order or sixth order), called integro quadratic or sextic spline interpolation. After introducing the integro quartic and sextic B-spline interpolation, their convergence is discussed. The interpolation errors are studied. Numerical results illustrate the efficiency and effectiveness of the new interpolation method.

کلمات کلیدی:

Integro interpolation quartic B-spline, Integro interpolation sextic B-spline, Convergence

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