

RATIONAL QUADRATIC X_1 -SPLINE INTERPOLATION

MRIDULA CHATURVEDI

Kendriya Vidyalaya Durg (C.G.), Chhattisgarh, India

ABSTRACT

Parallel to the concept of X -splines, established by Clenshaw and Negus [1] for cubic or quadratic splines. We have developed in the present paper, the concept of rational X_r -splines. Further we have obtained a unique rational mid-point interpolatory X_1 -spline of the type quadratic/quadratic. The convergence properties of the sequence of such rational splines have also been investigated.

KEYWORDS: X -Spline, Rational Spline, Convergence