Abstract

A C2 cubic rational spline with cubic numerator and linear denominator has been constructed. This rational spline belongs to C2 in the interpolating interval. By selecting the suitable value of shape parameters, it is easy to find the constraints for the shape of interpolating curve to lie above, below or between the given straight lines. Also, the error bound for interpolating function is discussed.

References

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**Index Terms**

Computer Science

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**Keywords**

Rational cubic spline shape parameters constrained interpolation Error estimation