

一类 $C \sim 3$ -连续的B-型样条曲线及其插值与逼近性

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 本文提出一类 $C \sim 3$ -连续的带有因子的B-型参数样条曲线,它的每一段只要四个控制点就能生成,可用它直接插值或逼近于任意控制点或对控制边多边形作局部或整体逼近.利用因子间的某些关系可将其次数降到最低.与普通的四次B-样条曲线相比,这类曲线更加方便灵活.

关键词 [C3-连续,B-型参数样条曲线,因子,插值与逼近,四次B-样条曲线](#)

分类号

A CLASS OF C_3 -CONTINUOUS B-TYPE SPLINE CURVE AND ITS INTERPOLATION AND APPROXIMATION

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Abstract This paper presents a class of $C \sim 3$ -continuous B-type parametric spline curves with factors. Each segment of the curve is only generated by four consecutive control points. It can directly interpolate or approximate to any control points and locally or globally approximate the control polygon. By using some relations among the factors, the segment's degree can be decreased to the lowest. Our curve is more convenient and flexible than common quartic B-spline curve.

Key words [Ca-continuity](#) [B-type parametric spline curve](#) [factor](#) [interpolation and approximation](#) [quartic B-spline curve](#)

DOI:

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