

Generating Arabic Fonts Using Rational Cubic Ball Functions

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Abstract : In this paper, we will discuss about the data interpolation by using the rational cubic Ball curve. To generate a curve with a better and satisfactory smoothness, the curve segments must be connected with a certain amount of continuity. The continuity that we will consider is of type $G^{>1}$ continuity. The conditions considered are known as the $G^{>1}$ Hermite condition. A simple application of the proposed method is to generate an Arabic font satisfying the required continuity.

Keywords : data interpolation, rational ball curve, hermite condition, continuity

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