Modified Method for Generating B-Spline Curves of Degree Three and Their Controlling

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ABSTRACT

The reaction between designer, and design needs modified methods to control the design. This paper presents modified mathematical technique for controlling the generation of the 2D designs of third degree, by using modified Gallier of Bezier curves. The paper discuses a polynomial in terms, of polar forms, with respect to the parameter. The modified method has resulted in good starting point, to generate which 2D design, algorithm which allows the designer to produce a design in combinational way allows him to get the shape that he has in his mind keeping the four control points for 2D design. The method shows a great flexibility in 2D design controlling area with changing. There is no need to change the control points of the design; moreover efficiency in designs is obtained in comparison with that needed for conventional methods.

Keywords: Gallier of Bezier curves, B-Spline Curves.

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