

## عنوان مقاله:

Capturing Outlines of Planar Generic Images by Simultaneous Curve Fitting and Sub-division

## محل انتشار:

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## خلاصه مقاله:

In this paper, a new technique has been designed to capture the outline of 2D shapes using cubic Bézier curves. The proposed technique avoids the traditional method of optimizing the global squared fitting error and emphasizes the local control of data points. A maximum error has been determined to preserve the absolute fitting error less than a criterion and it administers the process of curve subdivision. Depending on the specified maximum error, the proposed technique itself subdivides complex segments, and curve fitting is done simultaneously. A comparative study of experimental results embosses various advantages of the proposed technique such as accurate representation, low approximation errors and efficient computational complexity.

## کلمات کلیدی:

Outline capturing, Cubic Bezier Curve, Curve fitting, Control point, Curve subdivision

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1032293>

