

Circle arc approximation by parametric polynomials

Gašper Jaklič
FGG and IMFM, University of Ljubljana
`gasper.jaklic@fgg.uni-lj.si`

We consider uniform approximation of a circle arc by a parametric polynomial curve. For low degree curves the approximant can be given in a closed form. For higher degrees a nonlinear equation needs to be solved. Error analysis is done, and application for fast evaluation of trigonometric functions is considered.

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