

國立中山大學應用數學系

學術演講

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講題：Geometric design of Letters in Time Roman font using Thin Plate Splines

時間：2026/06/04 (Thursday) 15:30 ~ 16:30

地點：理 SC4009-0 教室

茶會：15:00

Abstract

In this talk, we present a simple numerical approach to reconstruct letters in Time Roman font. It is known that Bezier curves are widely applied in the design of computer fonts and computer graphics to model smooth curves. Bernstein polynomials are used to produce the collocation points on Bezier curves. Subsequently, Thin Plate Splines (TPS) is adopted to reconstruct the letters of Time Roman font using the collocation points obtained through Bezier curves. Traditional TPS with augmented polynomial basis functions and regularized TPS without adding polynomial basis functions are presented and the results are compared for various letters.

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