Mazure, Marie-Laurence

An important tool in the theory and practice of computer aided geometric design is the use of blossoming. The well-known work of the author is here extended to geometrically continuous piecewise Chebyshevian splines. Specifically, the equivalence between the existence of B-spline bases and of blossoms is established for these cases (Theorem 1.4 in the first section). Moreover, the important concept of ready-to-blossom bases is discussed which enables the user to realize quickly whether blossoms exist or not.

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MSC:
41A15 Spline approximation
65D07 Numerical computation using splines

Keywords:
blossomming; B-splines; Extended Chebyshev spaces; Chebyshevian splines

Full Text: DOI

References:

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