SURFACE INTERPOLATION WITH PRESCRIBED GIVEN GEODESICS AND POINTS

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We introduce the new method to construct of a parametric surface with prescribed given curves and some points lying Euclidean 3-space, it is called a $C^0$-Hermite surface interpolation. Also, we prove the existence of a $C^0$-Hermite interpolation of isoparametric surfaces with the so-called marching scale functions, and give some examples. Finally, we illustrate and construct ruled surfaces and surfaces foliated by circle as an isoparametric surface.

REFERENCES