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论文

# 任意散乱数据光滑超曲面拟合的二步法

唐月红,李卫国,郭红英

南京航空航天大学;南京航空航天大学;南京航空航天大学

摘要：

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# SMOOTH HYPER-SURFACES TWO-STAGE FITTING (TSF) METHOD FOR ARBITRARY SCATTERED DATA

Dang Yue-hong;Li Wei-guo;Guo Hong-ying(Naming University of Aeronautics Astronautics)

Abstract:

In this paper, a fitting method for arbitrary multivariate scattered data is presented.The method consists of uniforming the set of arbitrary 4dimensional scattered data byusing local weighted least square, evaluating the values of partial derivatives and minedpartial derivatives over the cube-gridded-points only by using those gridded-point data,followed by interpolating smoothly and quickly those gridded-point data. Good resultshave been gotten by computing several known functions.

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