

Franke, Richard; Schumaker, Larry L.

A bibliography of multivariate approximation. (English) Zbl 0641.41002

Topics in multivariate approximation, Proc. Int. Workshop, Santiago/Chile 1986, 275-335 (1987).

[For the entire collection see [Zbl 0624.00012](#).]

The authors give an extensive bibliography (1107 Items) on multivariate approximation and interpolation. The bibliography presented here covers several areas of multivariate approximation rather well. These include 1) methods for fitting surfaces to scattered data, 2) multivariate splines, 3) tensor-product approximation methods, and 4) thin plate splines and Kriging. The authors present some listings in several other areas including 1) best approximation and the theory of H-sets, 2) simultaneous interpolating and approximation, 3) multivariate positive-linear operators, and 4) multivariate Fourier analysis.

MSC:

- [41-02](#) Research exposition (monographs, survey articles) pertaining to approximations and expansions
- [41A05](#) Interpolation in approximation theory
- [41A63](#) Multidimensional problems (should also be assigned at least one other classification number from Section 41-XX)
- [41A15](#) Spline approximation
- [41A50](#) Best approximation, Chebyshev systems

Cited in 4 Documents

Keywords:

methods for fitting surfaces to scattered data; tensor-product approximation methods; thin plate splines; Kriging; H-sets; simultaneous interpolating; multivariate positive-linear operators; multivariate Fourier analysis