



Multivariate Approximation Theory IV

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 Proceedings of the Conference at the Mathematical Research
 Institute at Oberwolfach, Black Forest, February 12-18, 1989 |
 Multivariate Approximation Theory forms a rapidly evolving
 field in Applied Mathematics. The reason for its particular
 current interest lies in its impact on Computer Aided Geometric
 Design (CAGD), Image Processing, Pattern Recognition, and
 Multidimensional Signal Processing. Multivariate Bernstein
 polynomials and box splines, for example, play an important
 role in CAGD. Conversely, the highly important filter bank
 design problem of signal processing, for instance, gives rise to
 a new family of multivariate approximating functions, the
 Gabor wavelets, with interesting technological and biological
 applications. The conferences on Multivariate Approximation
 Theory held at the Mathematical Research Institute at
 Oberwolfach, Black Forest, in 1976, 1979, 1982, 1985 and 1989
 reflect the progress made in this area and related fields. The
 present volume which is a continuation of the preceding
 volumes Constructive Theory of Functions of Several Variables,
 Lecture Notes in Mathematics 571 (1977) Multivariate
 Approximation Theory, ISNM 51 (1979) Multivariate
 Approximation Theory II, ISNM 61 (1982) Multivariate
 Approximation Theory III, ISNM 75 (1985) is based on the
 conference held on February 12-18, 1989...



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