Nonlinear Interpolation Through Modulatory Filters

A family of nonpolynomial interpolatory classes of functions is presented throughout this paper. These are compared with the usual polynomial interpolation, both from a computational and an analytical point of view, remarking stability and accuracy. As an application, some nonlinear extrapolation methods are originated and compared to the Richardson and some better known rational extrapolation methods.

Key Words. onlinear interpolation, Richardson extrapolation, Stability

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