Numerical Aspects of Chebyshev Approximation

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Starting with some remarks on linear programming we consider at first the discrete linear Chebyshev approximation of data and of continuous functions. Then we give some theoretical foundations of Chebyshev approximation embedded in semi-infinite programming. After it we study the numerical behavior of linear Chebyshev approximation problems in several examples (computer demonstrations) and discuss on this way numerical treatments of such problems.