

Bocconi

Department of Decision Sciences

Occasional Seminar

Tolerance Sensitivity Analysis: Thirty Years Later

Richard E. Wendell

University of Pittsburgh

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Abstract

Tolerance sensitivity analysis was conceived in 1980 as a pragmatic approach to effectively characterize a parametric region over which objective function coefficients and right-hand-side terms in linear programming could vary simultaneously and independently while maintaining the same optimal basis. As originally proposed, the tolerance region corresponded to the maximum percentage by which coefficients or terms could vary from their estimated values. Over the last thirty years the original results have been extended in a number of ways and applied in a variety of applications. This paper is a critical review of tolerance sensitivity analysis, including extensions and applications.

Department of Decision Sciences

Via Röntgen 1 - 20136Milano

Tel. 02 5836.5632 Fax 02 5836.5630