

On fuzzy parametric quadratic programming*

MOHAMED ABD EL-HADY KASSEM[†] and N. A. EL-KHOLY[‡]

Abstract

This paper presents a qualitative analysis of basic notions in fuzzy parametric programming for a quadratic program with fuzzy parameters in the objective function and in the constraints under the concept of α -optimality. These fuzzy parameters are characterized by fuzzy numbers. These notions are the set of feasible parameters, the solvability set, the stability set of the first kind and the stability set of the second kind. An illustrative example is given to clarify the obtained results.

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[†] *Mailing Address:* Mathematical Department, Faculty of Science, Tanta University, Tanta, Egypt. *E-mail:* mohd60_371@hotmail.com.

[‡] *Mailing Address:* Mathematical Department, Faculty of Science, Tanta University, Tanta, Egypt.