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FUZZY INVENTORY MODELS UNDER GENERALIZED MEAN PREFERENCE

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Abstract

Inventory means stored resource that is used to satisfy a current or a future need. In this paper, fuzzy inventory models with fuzzy parameters for crisp order quantity, or for fuzzy order quantity under decision makers preference are introduced. We propose the fuzzy total annual inventory ordering quantity based on the fuzzy arithmetical operations under Function Principle. Finding Optimal order quantities of our proposed models by using Graded mean Integration Representation of generalized fuzzy number and the span of fuzzy number. Furthermore, our optimal solutions can be specified to meet classical production inventory models.

Key Words : Fuzzy arithmetic, Triangular fuzzy number, Function Principle.

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