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Energy of A Hesitant Fuzzy Graph

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ABSTRACT

In this paper, we introduce the notion of the Energy of a Hesitant fuzzy graph which is an extension of the energy of fuzzy graph. We have defined the adjacency matrix of a hesitant fuzzy graph and the energy of an hesitant fuzzy graph. The lower and upper bound for the energy of a hesitant fuzzy graph are also derived.

Keywords: Hesitant fuzzy set, energy of fuzzy graph, Hesitant fuzzy graph