Summary: Theoretical concepts of crisp graphs are highly utilized in computer science and applications. They are especially important in many research areas in computer science like image segmentation, data mining, clustering, network routing, and image capturing. If the role of vertices and edges are uncertain, having two opposite effects, positive and negative, then bipolar fuzzy graphs always play an important factor. In this paper, some important results on different types of operations of bipolar fuzzy graphs are improved. First, we explain some important theorems about the degree of composition, tensor product, and normal product of two bipolar fuzzy graphs using examples.

MSC:
05C72 Fractional graph theory, fuzzy graph theory
05C76 Graph operations (line graphs, products, etc.)

Keywords:
bipolar fuzzy graphs; degree of vertex; tensor product; normal product; composition; counter example

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References:


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