Chapter 5
Interval Rough Neutrosophic TOPSIS Strategy for Multi-Attribute Decision Making

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ABSTRACT

In this chapter, the authors present a new strategy for multi-attribute decision making in interval rough neutrosophic environment. They define Hamming distance and Euclidean distance between interval rough neutrosophic numbers. They also define interval rough neutrosophic relative positive ideal solution (IRNRPIS) and interval rough neutrosophic relative negative ideal solution (IRNRNIS). Then the ranking order of the alternatives is obtained by the technique for order preference by similarity to ideal solution (TOPSIS) strategy. Finally, a numerical example is provided to demonstrate the applicability and effectiveness of the proposed interval rough neutrosophic TOPSIS strategy.
1. INTRODUCTION


Broumi and Smarandache defined interval rough neutrosophic set (IRNS) (Broumi et al., 2015) by combining the concept of rough set and interval neutrosophic set (Broumi et al., 2015). Pramanik et al. (2018) presented an MADM based on projection and bidirectional projection measures under IRNS environment. Pramanik et al. (2018) proposed an MADM based on trigonometric Hamming similarity measures in IRNS environment.

Price Transmission along the European Food Supply Chain in Selected Northern-Southern Countries
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