

**عنوان مقاله:**

S-APPROXIMATION SPACES: A FUZZY APPROACH

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**خلاصه مقاله:**

In this paper, we study the concept of S-approximation spaces in fuzzy set theory and investigate its properties. Along introducing three pairs of lower and upper approximation operators for fuzzy S-approximation spaces, their properties under different assumptions, e.g. monotonicity and weak complement compatibility are studied. By employing two thresholds for minimum acceptance accuracy and maximum rejection error, these spaces are interpreted in three-way .decision systems by defining the corresponding positive, negative and boundary regions

**کلمات کلیدی:**

Fuzzy S-approximation Spaces, Fuzzy sets, Three-way decisions, monotonicity, Weak Complement Compatibility, Rough Set Theory, Rough Mereology

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