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A new similarity/distance measure between intuitionistic fuzzy sets based on the transformed isosceles triangles and its applications to pattern recognition

Qian Jiang , Xin Jin , Shin-Jye Lee , Shaowen Yao

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HIGHLIGHTS

We proposed a new similarity/distance measure between intuitionistic fuzzy sets.

The given IFSs are transformed into the corresponding isosceles triangles.

The transformed isosceles triangles of IFS are placed in different axes.

This measure is defined by the intersections of the transformed isosceles triangles.

This measure is applied to pattern recognition problems to verify its rationality.

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