

عنوان مقاله:

Fuzzy implications satisfying the generalized hypothetical syllogism based on the Bandler-Kohout subproduct with semicopulas

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خلاصه مقاله:

Generalized hypothetical syllogism (GHS) plays a very important role in fuzzy inference. Therefore, it is valuable to investigate the GHS based on the Bandler-Kohout subproduct (BK-GHS) in order to measure the availability of fuzzy inference. This paper aims to study the (BK-GHS) property of some well-known fuzzy implications including (S, N)-, QL-, f-, g-, probabilistic and probabilistic S-implications in detail. We use the method of automorphism transformation to investigate (S, N)- and QL-implications and make better use of some essential properties about f-, g-, probabilistic and probabilistic S-implications to make them satisfy (BK-GHS) with semicopulas. With these results, (BK-GHS) can be more effectively applied in practice.

کلمات کلیدی:

Fuzzy implication, generalized hypothetical syllogism, Semicopula, Bandler-Kohout subproduct

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