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L-fuzzy bi-closure systems and *L*-fuzzy bi-closure operators. (English) Zbl 1477.06042
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Summary: In this paper, we introduced the notions of right and left closure systems on generalized residuated lattices. In particular, we study the relations between right (left) closure (interior) operators and right (left) closure (interior) systems. We give their examples.

MSC:

- [06D72](#) Fuzzy lattices (soft algebras) and related topics
- [03E72](#) Theory of fuzzy sets, etc.
- [03G10](#) Logical aspects of lattices and related structures
- [06A15](#) Galois correspondences, closure operators (in relation to ordered sets)

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Keywords:

right (resp. left; bi-) closure systems; generalized residuated lattices; right (resp. left; bi-) closure (interior) operators

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