

# Representing regular Kleene algebras by means of rough sets

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We prove that each regular double pseudocomplemented Kleene algebra is isomorphic to a subalgebra of a rough set algebra defined by a tolerance. This tolerance relation is induced by an irredundant covering of the underlying universe. We also characterize regular double pseudocomplemented Kleene algebras satisfying the Stone identity.

## References

- [1] Jouni Järvinen, Sándor Radeleczki, Representing regular pseudocomplemented Kleene algebras in terms of rough sets, *arXiv:1806.09203*.