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Covering-based rough sets and modal logics. Part II

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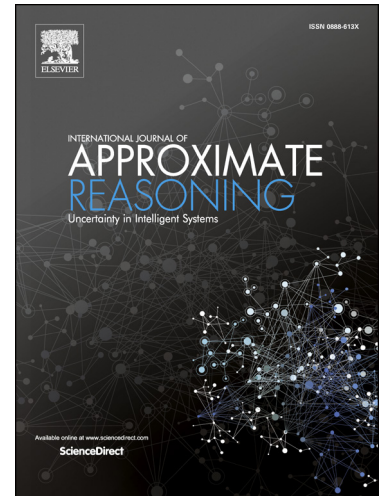
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## Highlights

- This paper proposes the category of covering-based rough sets which is dually equivalent to a category of Kripke frames.
- The categorical link between covering-based rough set and modal logic via the rough set system C2 is established.
- The definability of finite covering frames in modal language is solved. This paper provides an overall categorical perspective on covering frames in connection with modal logic.

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