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Stone type representation theorems via games. (English) Zbl 07008622  

Summary: The classes of relativized relation algebras (whose units are not necessarily transitive as binary relations) are known to be finitely axiomatizable. In this article, we give a new proof for this fact that is easier and more transparent than the original proofs. We give direct constructions for all cases, whereas the original proofs reduced the problem to only one case. The proof herein is combinatorial and it uses some techniques from game theory.

MSC:
03G15 Cylindric and polyadic algebras; relation algebras
06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)
03B45 Modal logic (including the logic of norms)

Keywords:
representability; relation algebras; games and networks

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References:

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