Towards weak bases of minimal relational clones on all finite sets

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Weak bases of relational clones have been used in the past as a theoretical tool to establish more fine-grained complexity analyses of computational problems, see, e.g., [6, 1, 5, 8, 3]. For the Boolean case weak bases have been determined by Lagerkvist in [7], see also the discussion in [2]. The quest for weak bases on sets of larger size was begun in [4] with a study of weak bases for maximal clones, resulting in a complete description for all maximal clones on a three-element set. We shall report on extending this work to all maximal clones on any finite set.

References

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