

CLAUSAL RELATIONS AND C -CLONES*

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Abstract

We introduce a special set of relations called clausal relations. We study a Galois connection $\text{Pol} - C\text{Inv}$ between the set of all finitary operations on a finite set D and the set of clausal relations, which is a restricted version of the Galois connection $\text{Pol} - \text{Inv}$. We define C -clones as the Galois closed sets of operations with respect to $\text{Pol} - C\text{Inv}$ and describe the lattice of all C -clones for the Boolean case $D = \{0, 1\}$. Finally we prove certain results about C -clones over a larger set.

Keywords: clone, Galois connection, clausal relation, C -clone.

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