

## 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.

**2000 Mathematics Subject Classification:** Primary 08A99; Secondary 08A02.

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Received 22 April 2009  
Revised 16 December 2009

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\*Supported by the DAAD-CONACyT grant no. A/06/13410.