



The *Stone-functor*  $S : Top^{op} \rightarrow Boo$  (where  $Boo$  is the construct of boolean algebras and boolean homomorphisms) assigns to each topological space the boolean algebra of its clopen subsets, and for any continuous map  $f : X \rightarrow Y$ ; i.e. for any morphism  $f : Y \rightarrow X$  in  $Top^{op}$ ,  $Sf : S(Y) \rightarrow S(X)$  is given by  $Sf(Z) = f^{-1}[Z]$ .