

$A$	The set of agents.
$a$	The number of agents, i.e. $ A $ .
$S$	Symbol for a coalition.
$CS$	Symbol for a coalition structure.
$CS^*$	Welfare maximizing coalition structure.
$M$	The set of all possible coalition structures.
$m$	$ M $ , total number of coalition structures.
$N$	Coalition structures searched so far.
$n$	$ N $ .
$n_{min}$	Minimum $n$ that guarantees a bound $k$ .
$CS_N^*$	Welfare maximizing CS among ones seen.
$V(CS)$	Value of coalition structure $CS$ .
$k$	Worst case bound on value, see Eq. ??.