Notation	Description
$\frac{10000001}{U}$	Set of all users
$\stackrel{C}{S}$	Set of an users Set of screened users
T	Set of servened users  Set of winning users
i, j	User $i$ and User $j$ in set $U$
n	Total number of users
<i>г</i>	The platform's set of tasks
$t_k$	Task $k$ in set $\Gamma$
m	Total number of sensing tasks
$\chi_k$	Value of task $k$
$\chi(\tau)$	The value of tasks in $\tau$
$v_i$	Value of all tasks performed by user $i$
v(S)	Value of tasks performed by users in $S$
$v_i(S)$	Marginal value of user $i$ , given set $S$
$b_i$	Bid of user $i$
$p_i$	Payment made to user $i$
$c_i$	Cost incurred by user $i$
$ au_i$	Set of tasks performed by user i
$\tau(S)$	Set of tasks performed by users in $S$
$\tau_i(S)$	Marginal tasks done by user $i$ , given set $S$
$\omega_i$	Personal or intrinsic utility of user $i$
$u_i$	Platform utility of user $i$
u(S)	Platform utility of users in $S$
$u_i(S)$	Marginal utility of user $i$ , given set $S$
$\gamma_i$	Minimum replacement user's bid
$\sigma_i(S)$	Difference of marginal value and bid