\overline{a}	The seller's <u>ask</u>
k	Number of VM types proposed by the seller
s_i	Supplied amount of VMs of type $i \leq k$
o_i	Reserve (offer) price for the VM of type $i \leq k$
U	Set of buyers (users) $\{u_1,, u_n\}$
b_{j}	$\underline{\text{Bid}}$ of the buyer u_j
r_{ij}	The amount of VMs (<u>resource</u>) of type $i \leq k$
_	requested by the user u_j
d_{j}	The bundle of VMs requested (demanded) by u_j
v_{j}	Declared valuation of the user u_j
p_{j}	Price that the user u_j pays
\dot{W}	Set of winning buyers $W \subseteq U$