Notation	Description	Notation	Description
$\Pr\{A\}$	The probability that event A occurs	$\mathbb{E}\{\Re\}$	Expected value of the RV $\Re$
$\mathrm{H}(\Re)$	Entropy of RV R	$f_{\Re}$	The PDF of RV $\Re$
$\mathbb{R}^{++}$	The set of positive real numbers excluded zero	$\mathbb{N}$	The set of natural numbers
$\lambda_g^i$	Arrival rate of $i$ -th application	$\lambda_g$	The discrete RV denoting the application rate $\in \Lambda_g$
$\hat{\lambda}_g$	The adversary's estimation for $\lambda_g$	$\lambda_d^{ij}$	Augmenting rate of dummy packets in mapping application $i$ to $j$
$\mu_g$	Original packets service rate	$\gamma$	Packets departure rate
$t_l$	The $l$ -th packet arrival time	$d_l$	The $l$ -th packet departure time
$\Lambda_g$	The set of ordered sequence of the rates of all applications at the host.	$\Theta_{i*}$	The set of candidate dummy rates $\lambda_d^{ij}$ such that satisfies $\lambda_g^i + \lambda_d^{ij} \in \Lambda_g$ , where $\lambda_g^i$ is the <i>i</i> -th application rate.
$P_e$	The adversary's estimation error probability	M	Stationary marked point process
$M_0$	Synchronous stationary marked point process	N	The number of applications in the source
$p_{ij}$	The probability of changing the rate of application $i$ to the rate of application $j$	$\alpha$	Weighting parameter of the trade-off between communication cost and privacy degree
$\psi_{ij} = f(\lambda_d^{ij})$	The cost of transmitting dummy packets with rate $\lambda_d^{ij} = \gamma^j - \lambda_g^i$		