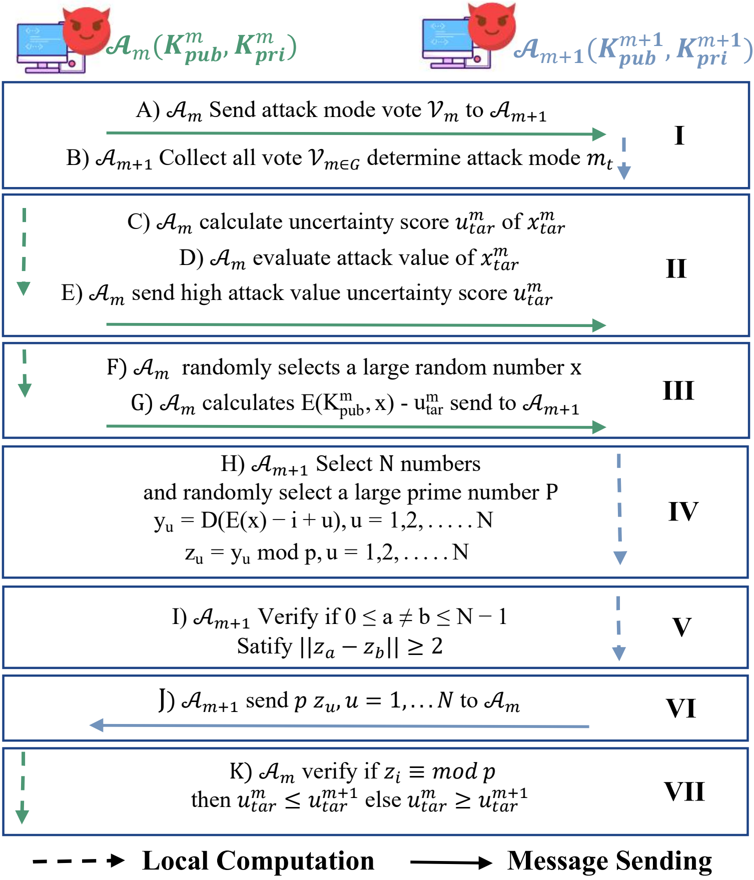
$\mathcal{A}_m(K_{pub}^m, K_{pri}^m)$
$\mathcal{A}_{m+1}(K_{pub}^{m+1}, K_{pri}^{m+1})$
A) $\mathcal{A}_m$ Send attack mode vote $\mathcal{V}_m$ to $\mathcal{A}_{m+1}$
B) $\mathcal{A}_{m+1}$ Collect all vote $\mathcal{V}_{m \in G}$ determine attack mode m_t
I
C) $\mathcal{A}_m$ calculate uncertainty score u_{tar}^m of x_{tar}^m
D) $\mathcal{A}_m$ evaluate attack value of x_{tar}^m
E) $\mathcal{A}_m$ send high attack value uncertainty score u_{tar}^m
II
F) $\mathcal{A}_m$ randomly selects a large random number x
G) $\mathcal{A}_m$ calculates $\mathrm{E}(\mathrm{K}_{\mathrm{pub}}^{\mathrm{m}}, \mathrm{x})$ - $\mathrm{u}_{\mathrm{tar}}^{\mathrm{m}}$ send to $\mathcal{A}_{m+1}$
III
H) $\mathcal{A}_{m+1}$ Select N numbers
and randomly select a large prime number P
$\mathrm{y_u} = \mathrm{D}(\mathrm{E}(\mathrm{x}) - \mathrm{i} + \mathrm{u}), \mathrm{u} = 1,2, \ldots\ldots \mathrm{N}$
$\mathrm{z_u} = \mathrm{y_u} \bmod \mathrm{p}, \mathrm{u} = 1,2, \ldots\ldots \mathrm{N}$
IV
I) $\mathcal{A}_{m+1}$ Verify if $0 \leq \mathrm{a} \neq \mathrm{b} \leq \mathrm{N} - 1$
Satify $||z_a - z_b|| \geq 2$
V
J) $\mathcal{A}_{m+1}$ send $p\ z_u, u = 1, \ldots N$ to $\mathcal{A}_m$
VI
K) $\mathcal{A}_m$ verify if $z_i \equiv mod\ p$
then $u_{tar}^m \leq u_{tar}^{m+1}$ else $u_{tar}^m \geq u_{tar}^{m+1}$
VII
Local Computation
Message Sending