

This paper presents a range-only localisation method meeting formal cryptographic requirements that ensure sensors keep their measurements, sensor variances and locations private while the navigator keeps its estimates private. The paper is standardized and the mathematical derivation seems correct, but there are still some areas that need to be improved, please check and correct.

1. In Notation, please correct the sentence “ \parallel the binary concatenation operator”.

2. In section \parallel -A, please check the correctness of the formula

$$l_i^{(t)} = \sum_{j=1}^m a_{j,i}^{(t)} \omega_j^{(t)}, \text{ which is inconsistent with the description in Fig. 1.}$$

3. In section \parallel -A, is the sensor Honest-but-Curious or is the attacker model Honest-but-Curious? How does the attack occur in the sensors?

4. What's the meaning of $\mathcal{E}(\cdot)$ in $\text{CombEnc}\left(t, pk_0, sk_i, \mathcal{E}\left(\omega_1^{(t)}\right), \dots\right)$? The author does not give a paraphrase in Notation. And in $\text{AggDec}\left(t, pk_0, sk_0, \dots\right)$, the public and private keys pk_0, sk_0 is not shown in the description of linear combinations

$$\sum_{i=1}^n l_i^{(t)} = \sum_{i=1}^n \sum_{j=1}^m a_{i,j}^{(t)} \omega_j^{(t)}.$$

5. Please complete the references with the relevant information, for example, the year of publication of ref. 8.