Reply to the Reviewer’s Comments

Title: "A Lightweight Dynamic Pseudonym Identity Based Authentication and Key Agreement Scheme Using Wireless Sensor Networks for Agriculture Monitoring"

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Reference No.: sensors- 415828

Summary of the changes in response to the review of ID: sensors- 415828

We would like to thank the editor and the anonymous reviewers for your very helpful and valuable comments on our manuscript entitled "A Lightweight Dynamic Pseudonym Identity Based Authentication and Key Agreement Scheme Using Wireless Sensor Networks for Agriculture Monitoring". We have revised the manuscript according to the reviewers’ comments. The main changes in response to the reviewing results are listed below.

1. We have modified the paper title as “An Enhanced Lightweight Dynamic Pseudonym Identity Based Authentication and Key Agreement Scheme Using Wireless Sensor Networks for Agriculture Monitoring” according to the reviewers’ comments.

2. We have revised the descriptions about the importance of wireless sensor network technology for agriculture monitoring and appended the difference between using WSN or P2P networks in agriculture, in healthcare and military purposes according to the reviewers’ comments.

3. We have modified the descriptions and included the suggested references according the reviewer’s comments.

4. We have revised the descriptions about the importance of anonymity in agriculture area.

5. We have modified the user/agriculture professional registration phase such that the proposed scheme does not require a trustworthy channel.

6. We have revised the descriptions about performance comparisons and included the simulation according reviewer’s comments.

Comments and Suggestions for Authors

Reviewer 1:
The authors have justified most of comments. However, how does this scheme is
suitable for agriculture application? I did not see the convincing motivation.

Through the authors have provided some justification for above, i.e., "Ali, et al. are the first authors whose can see these importance and then designed a special scheme for agriculture monitoring using WSNs. Unfortunately, their scheme suffered from major security weaknesses."

With such justification, I would rather suggest to change the paper title, e.g., Enhanced Lightweight Dynamic Pseudonym Identity Based Authentication and Key Agreement Scheme Using Wireless Sensor Networks for Agriculture Monitoring

Ans.: Thank you for your valuable suggestion. We have revised the descriptions about the importance of wireless sensor network technology for agriculture monitoring and appended the difference between using WSN or P2P networks in agriculture, in healthcare and military purposes, and modified the paper title as “An Enhanced Lightweight Dynamic Pseudonym Identity Based Authentication and Key Agreement Scheme Using Wireless Sensor Networks for Agriculture Monitoring”.