

A GNSS based Crowded Sensing Strategy for Specific Geographical Areas

The authors present a crowd sensing approach that utilizes GNSS signals to locate people in specific geographic areas. It proposes GNSS-based crowd sensing to count the number of people in an area called hot spot. The flow of the paper is well in general. However, I have the following concerns for the manuscript:

1. There is no related work section. Only a few papers are discussed in Introduction section. It is very important that authors discuss related works to highlight their limitations and establish the importance of their work.
2. The approach covers only the “geometric range” portion of GNSS positioning. No details about the rest of the GNSS positioning like receivers clock bias, transmission and satellite signals.
3. As the title suggests that the paper is about finding crowd at a specific place. It has nothing to do with the positioning. Why authors claim that their approach can locate a location with 30cm accuracy, i.e., line 381.
4. Authors claim that “we propose a GNSS-based crowd-sensing sensing strategy for specific geographical areas that can be used to calculate how many people are in specific geographical areas” (line 24~25). However, results regarding this claim are not presented in the paper.
5. If authors claim for positioning accuracy, please do the following
 - a. The probability of accuracy for the proposed approach is not given. Authors should make a CDF (cumulative distributive function) to show the performance of the proposed approach.
 - b. State-of-the art work in GNSS positioning is not discussed. No performance comparison is available in the paper.
6. If it solely aims at sensing people presence at particular areas:
 - a. Compare the performance of the proposed approach with at least two other crowd sensing approaches w.r.t to accuracy, and time.
7. Paper needs a thorough proof reading and correction from native English speaker, as there are many typos and grammatical errors, even in the title of the paper, i.e. ‘crowded sensing’.
8. Figure 10-b axes are not appropriate
9. Figure 11, add axes to the figure. It is also not clear whether ‘# of points’ is part of Figure 11 or Table 3.
10. Table 4. Change ‘Totally’ to ‘total’.
11. There are two Figure 11 in the paper. First on page 11 and second on page 12.