

1a)

Correct, maybe use an enlarged figure with both filter estimate and smoother estimate would be more clearly.

1b)

Correct and clearly.

2a)

Correct and clearly.

2b)

Correct and clearly.

2c,d)

Correct. The difference could be described more clearly. And you should discuss the implications the particle trajectories for a PF without resampling has on the performance of the filter.

3 Bicycle tracking in a village

The task has not been answered. So no comment.