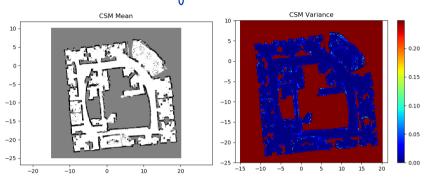


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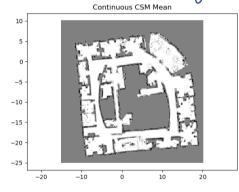
grid_size = 0.135

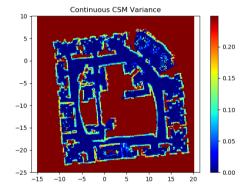


(Task 2)

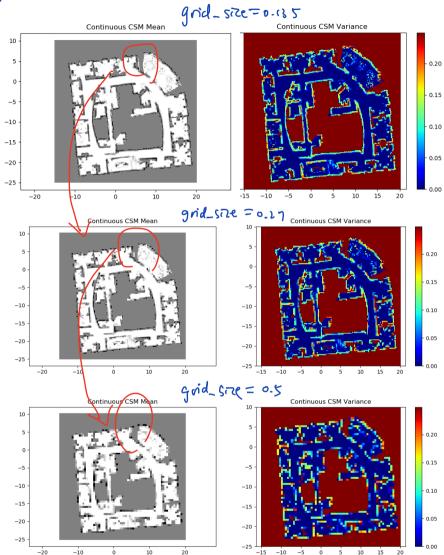
(A)

grid size = 0.135









As the grid size increase, the resolution of the map will decrease.

Some details like narrow gap marked with red civile above diso disappear.

Also, the consider will be nammer and some traversable path might be non-traversible due to grid size increase.

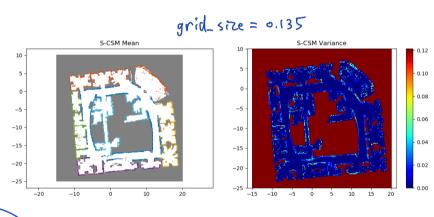
Honever, map construction time will decrease if we increase grid size.



The main difference between discrete and continuous (SM can be observed in the variance plat. The boundary between discovered and unexplored area for continuous CSM map has smooth transition, which is its advantage because it consider the correlation of neighboring grid cells.

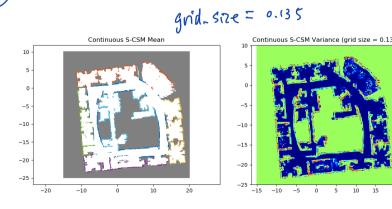






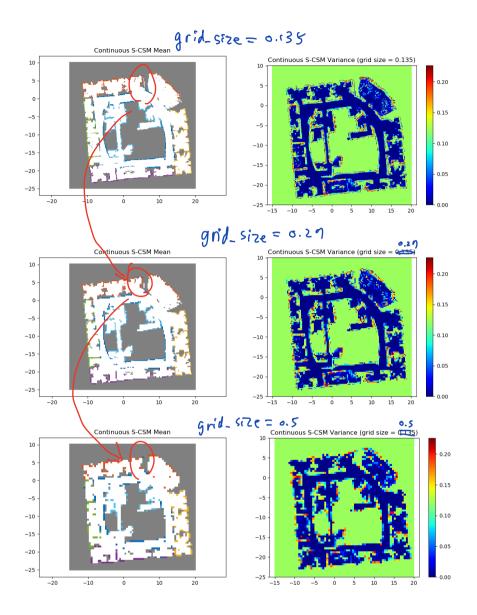
Task4

(A)



0.15

(B.



As the grid size increase, the resolution of the map will decrease.

Some details like narrow gap marked with red civile above 1/50 disappear.

Also, the corridor will be nammer and some traversable path might be non-traversible due to grid size increase.

Honever, map construction time will decrease if we increase grid size.

 $\left(c \cdot \right)$

The main difference between discrete and continuous (SM can be observed in the variance plat. The boundary between discovered and unexplored area for continuous CSM map has smooth transition, which is its advantage because it consider the correlation of neighboring grid cells.

Task S

