

Homework for 25/02/20

- Email to demet.palume@cs-pyon.fr
- Can be LaTeX, hand-written ... As long as it is Readable
- No need to be too verbal, if it is correct with good arguments it's fine for me.
- Notebooks have to be exported to pdf. I will not review your code but only look at the results.

Due: • Exercise 7: An analysis of the NN algorithm

- Simulations:
 - $X \sim U([0, 1]^d)$
 - $\forall |X| \sim \mathcal{B}\left(\left(\frac{\|X\|}{\sqrt{d}}\right)^\alpha\right)$

* When $d=2$, represent some Voronoi graphs for different values of α .

* For different values of d , verify graphically the rates of question 8.