

Home work exercise

We've seen in class an upper bound of $O(n)$ on the number of rounds required for convergence given a weighted threshold function f and a common prior distribution \mathcal{P} .

Show that this bound is tight to within a factor of 2 by constructing a threshold function with $2n$ inputs and a prior distribution for which it takes n rounds to determine the value of $f(x)$ in the worst case.