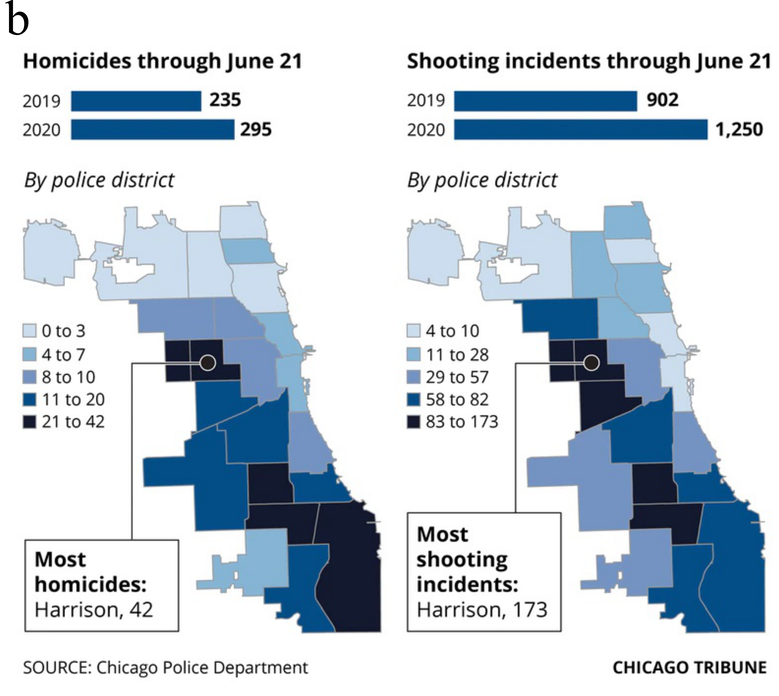
a

ID	$f(x,y,z)$	CP rank	Tucker rank
1	xyz	1	$(1,1,1)$
2	$\frac{1}{1+\exp(-3x^2+3y^2+3z^2))}$	9	$(4,4,4)$
3	$\frac{1}{\exp\big(\max(x,y,z)+\sqrt{x}+\sqrt{y}+\sqrt{z}\big)}$	≥ 100	$(90,90,90)$

Smooth functions in simulation. We define the numerical CP/Tucker rank as the minimal rank r for which the relative approximation error is below 10^{-4}. The reported rank in the table is estimated from a $100 \times 100 \times 100$ signal tensor generated by (2).

b



c