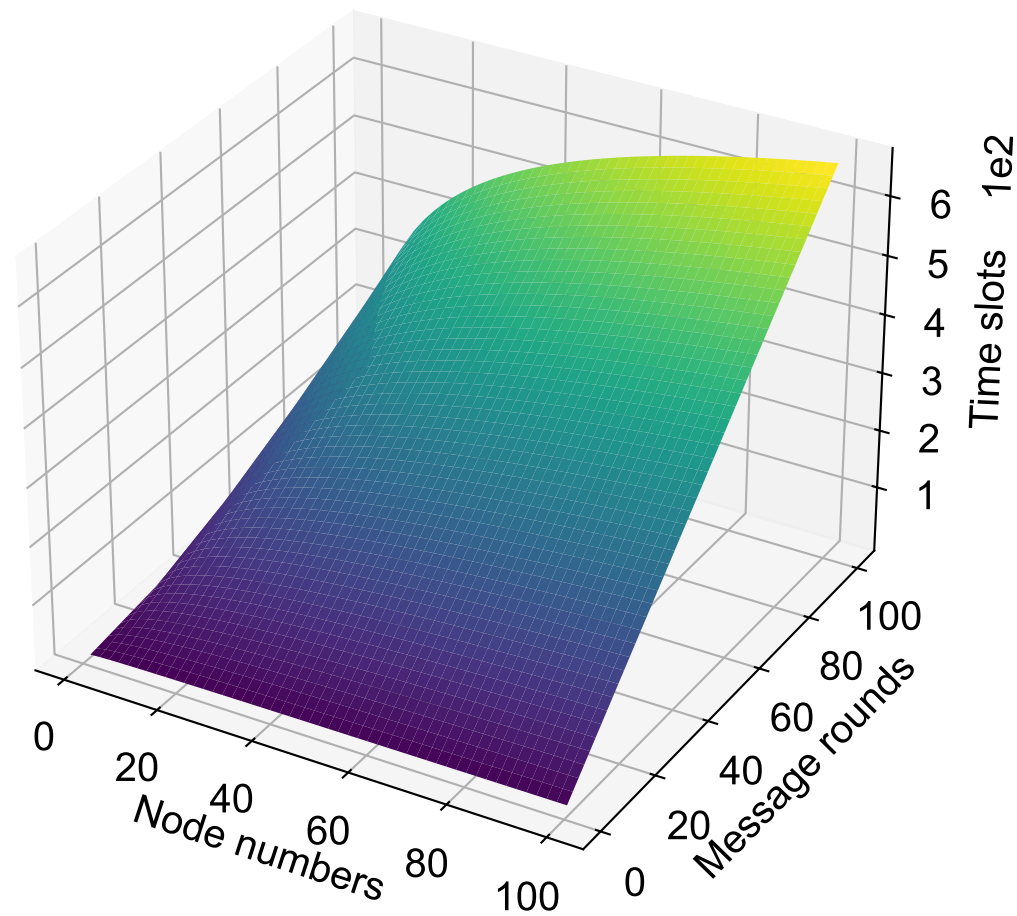
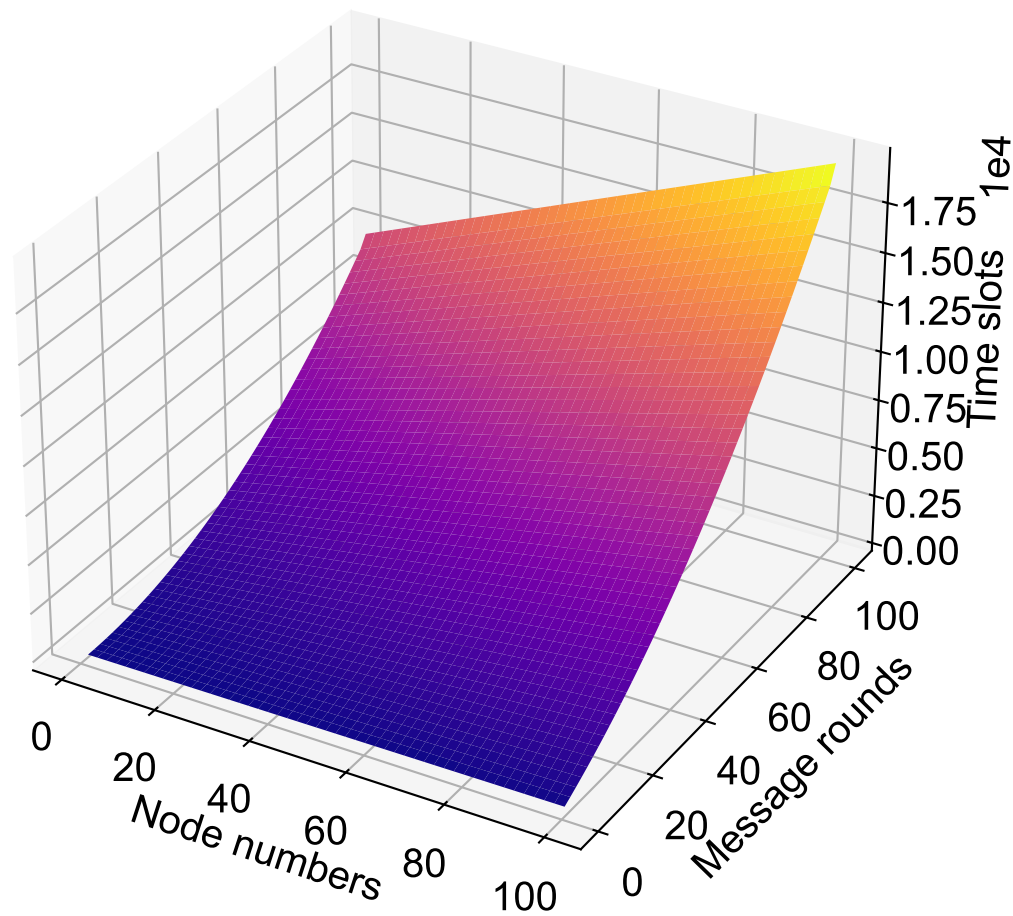


$$T = O(\log_2(N + 1) \times M)$$



$$T = O\left(\sum_{i=1}^M ((N - 1) + 2 \times (i - 1))\right)$$



$$T = O\left(\frac{(N - 1) \times M}{\log_2 N + 1}\right)$$

