

Figure 10 is a line graph showing the relationship between Retransmission probability (P) and the number of hops for different values of α (0.1 to 0.9). The x-axis represents Retransmission probability (P) from 0.1 to 0.9. The y-axis represents the number of hops, ranging from 0 to 10. Multiple lines are plotted, each corresponding to a different α value. The lines are color-coded: red for $\alpha=0.1$, orange for $\alpha=0.2$, yellow for $\alpha=0.3$, light green for $\alpha=0.4$, and blue for $\alpha=0.5$ to 0.9 . The number of hops generally decreases as the retransmission probability increases, and the decrease is more pronounced for higher α values. Error bars are shown for each data point.

