

Figure 1 is a line graph showing the evolution of the number of nodes in the network, N , over time t . The x-axis represents time t from 0 to 10, and the y-axis represents the number of nodes N from 0 to 120. Five curves are plotted, all starting at $N=100$ at $t=0$ and converging to $N=50$ at $t=10$. The curves represent different values of the parameter α : $\alpha=0.0$ (thick solid line), $\alpha=0.1$ (thin solid line), $\alpha=0.2$ (dashed line), $\alpha=0.3$ (dotted line), and $\alpha=0.4$ (dash-dot line). The $\alpha=0.0$ curve drops sharply to 0 by $t=1$. The $\alpha=0.4$ curve drops to 0 by $t=9$. The other curves show a more gradual decrease, with $\alpha=0.2$ having the highest values and $\alpha=0.4$ having the lowest values among the non-zero curves.

