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Figure 1 displays the evolution of the probability distribution of the number of nodes in a network over time, for three different network sizes: $N=10$, $N=20$, and $N=50$. The plots are arranged in a 3x3 grid, with rows representing time steps $t=0$, $t=1$, and $t=2$, and columns representing the network size N .

The x-axis represents the number of nodes (ranging from 0 to 10), and the y-axis represents the probability (ranging from 0 to 1). The distributions are unimodal and slightly skewed to the right, indicating that most nodes have a small number of connections.

Key observations from the plots:

- Row 1 ($t=0$):** The distributions are centered around a mean value of approximately 2.5 for $N=10$, 3.5 for $N=20$, and 4.5 for $N=50$.
- Row 2 ($t=1$):** The distributions are centered around a mean value of approximately 3.5 for $N=10$, 4.5 for $N=20$, and 5.5 for $N=50$.
- Row 3 ($t=2$):** The distributions are centered around a mean value of approximately 4.5 for $N=10$, 5.5 for $N=20$, and 6.5 for $N=50$.

The probability of having a large number of nodes (e.g., $x > 10$) is very low, while the probability of having a small number of nodes (e.g., $x < 10$) is high. The distributions are unimodal and slightly skewed to the right.

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