Abstract

In modern era activities of users on social network applications are growing exponentially. To understand the user behavior on online social networks, determining the parameters of activities, identifying structure of inter-relationship and exploration of dynamics are major issues of the paper. Randomness of information flow in social network is inheriting property and user response varies with time and space so these allow us to select appropriate stochastic modeling technique. Most of the events happened at the social network are random and simultaneously i.e. which post/message will be shared/visible on wall of whom and when. Random graphs and dynamic stochastic model i.e. epidemic model is observed to be very close for analyzing user activities and mechanism of information spreading.

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**Index Terms**

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**Keywords**

Complex Network, Random graph, Erdos-Renyi (ER) model, Social network