

# Random graphs and its applications for networks

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## Evolutionary Graph Theory

We present the basic Moran-Nowak model for studying the spread of infections in an initially healthy population of agents. The model is based on an initial graph, where the vertices represent the population and the interactions are represented by edges.

Initially a random node mutates/infected, and this provokes a finite stochastic process of infection and healings, that either finishes with all population infected or all population healed. We present the basic research done in the field as well as new recent related models.