

Parameters	Description
b, b_1	Recruitment rates of target and attacker classes
d_1, d_3	Natural death rate of targeted and attacker population node
β_1, β_2	Contact rate from susceptible class to infected class
γ	Rate of recovery of computers with malicious codes in breaking-out state
η, η_1	Rate of recovery of computers with malicious codes in infected state
d_2	Death rate in infected target classes(death due to infection and natural death)
λ_0	Rate of recovery of computers with malicious codes in quarantine state
δ	Rate of change of malicious nodes from infected to breaking-out state
θ	Rate of change of recovered nodes into infected nodes
d_4	Death rate in infected attacker classes(death due to infection and natural death)
α	Rate of change of recovered nodes into susceptible nodes
m_1, m_2	Infection controlling coefficients
μ	Rate of change of malicious nodes from infected to quarantine state