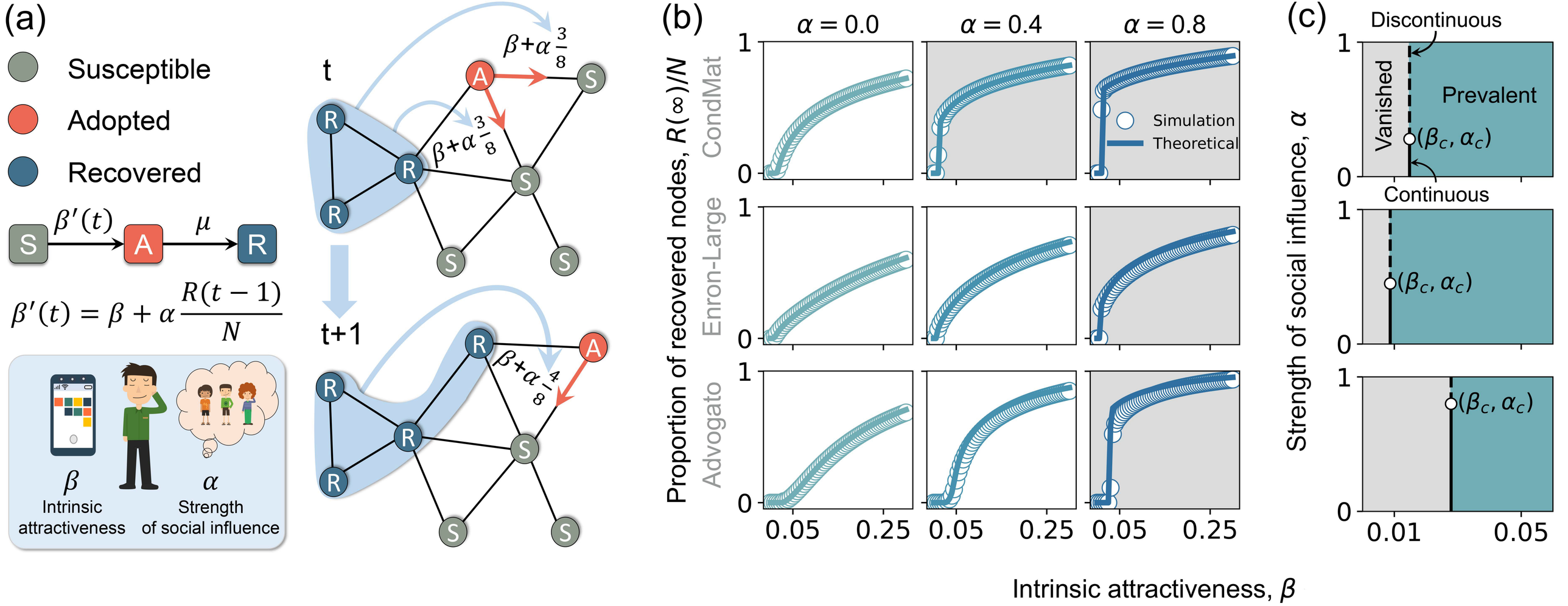
(a)
Susceptible
Adopted
Recovered
S
A
R
$\beta'(t)$
μ
$\beta'(t) = \beta + \alpha \frac{R(t-1)}{N}$
β
Intrinsic attractiveness
α
Strength of social influence
t
t+1
$\beta+\alpha\frac{3}{8}$
$\beta+\alpha\frac{4}{8}$
(b)
$\alpha = 0.0$
$\alpha = 0.4$
$\alpha = 0.8$
CondMat
Enron-Large
Advogato
Proportion of recovered nodes, $R(\infty)/N$
Simulation
Theoretical
0.05
0.25
Intrinsic attractiveness, β
(c)
Discontinuous
Continuous
Vanished
Prevalent
(β_c, α_c)
Strength of social influence, α
0.01
0.05