









| |  |  |  |  |
|---|--|---|--|---|
|  | 0 | 1 | 1 | 1 |
|  | 1 | 0 | 1 | 1 |
|  | 1 | 1 | 0 | 1 |
|  | 1 | -1 | 1 | 0 |

 Positive effects

$$z_{i,p+} = \sum_{j, j \neq i}^N (1 - \gamma_i) \left(x_{ij}^{(t)} m_{ij}^{(t)} \right) + \gamma_i \theta_i$$

 Negative effects

$$z_{i,p-} = \sum_{j, j \neq i}^N (1 - \gamma_i) \left[\left(x_{ij}^{(t)} \pm \varepsilon_{ij} \right) \left(v_{ij}^{(t)} \delta_{ij} \right) \right] + \gamma_i \theta_i$$