Erratum: Bypass rewiring and robustness of complex networks [Phys. Rev. E **94, 022310 (2016)]**

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The technical errors corrected here do not affect the results since the analytical derivations and the simulations in the previously published paper originally were based on the corrected descriptions and equations.

The word “error” in Sec. I should be corrected to “errors.”

$p_k \sim k^3$ in the caption of Fig. 3 should be corrected to $p_k \sim k^{-3}$.

The expression in Sec. III, “ q_k is the probability that a randomly chosen link reaches a node with degree k ,” should be corrected to “ q_k is the probability that a randomly chosen link reaches a node with degree $k + 1$.”

The expression in Sec. III, “ u is the average probability that a randomly chosen node is not connected to the giant component,” should be corrected to “ u is the average probability that a randomly chosen link is not connected to the giant component.”

$(\phi = \phi_k)$ in Sec. III should be corrected to $(\phi_k = \phi)$.

The expression “The even degree network for Fig. 3(b) is generated” in Sec. III should be corrected to “The even degree network for Fig. 3(b) is generated randomly.”

The sentence “At t -th step for $1 \leq t \leq \lfloor \frac{k}{2} \rfloor$, choose α' which satisfies $R_{\alpha'} = 0$ and $Q_{\alpha'} \geq Q_i$ for all i .” should be corrected to “At the t th step for $1 \leq t \leq \lfloor \frac{k}{2} \rfloor$, choose α' which satisfies $R_{\alpha'} = 0$ and $Q_{\alpha'} \geq Q_i$ with $R_i = 0$ for all i .”

The sentence “From chosen α' , choose α which satisfies $R_\alpha = 0$, $Q_\alpha = Q_{\alpha'}$, and $S_\alpha \geq S_i$ for all i .” should be corrected to “From the chosen α' , choose the α which satisfies $R_\alpha = 0$, $Q_\alpha = Q_{\alpha'}$, and $S_\alpha \geq S_i$ with $R_i = 0$ and $Q_i = Q_{\alpha'}$ for all i .”

The sentence “Otherwise, choose β' which satisfies $R_{\beta'} = 0$, $T_{\alpha,\beta'} = 0$, $Q_{\beta'} \geq Q_i$ for all i .” should be corrected to “Otherwise, choose β' which satisfies $R_{\beta'} = 0$, $T_{\alpha,\beta'} = 0$, $Q_{\beta'} \geq Q_i$ with $R_i = 0$ and $T_{\alpha,i} = 0$ for all i .”

The sentence “From chosen β' , choose β which satisfies $R_\beta = 0$, $T_{\alpha,\beta} = 0$, $Q_\beta = Q_{\beta'}$, and $S_\beta \geq S_i$ for all i .” should be corrected to “From the chosen β' , choose the β which satisfies $R_\beta = 0$, $T_{\alpha,\beta} = 0$, $Q_\beta = Q_{\beta'}$, and $S_\beta \geq S_i$ with $R_i = 0$, $T_{\alpha,i} = 0$, and $Q_i = Q_{\beta'}$ for all i .”

Equation $S_\alpha = S_\beta = S_\alpha + S_\beta$ in Sec. IV should be corrected to $S_i = [1 - (1 - T_{\alpha,i})(1 - T_{\beta,i})](S_\alpha + S_\beta)$ for all i .

The sentences in Sec. IV, “Update $T_{\alpha,i} = T_{i,\alpha} = 1$ if there exists i which satisfies $T_{\beta,i} = T_{i,\beta} = 1$. Update $T_{\beta,i} = T_{i,\beta} = 1$ if there exists i which satisfies $T_{\alpha,i} = T_{i,\alpha} = 1$.” should be corrected to “Update $T_{i,j} = T_{j,i} = 1$ if there exist i and j which satisfy $T_{i,\alpha}T_{\beta,j} = 1$, that is, $T_{i,j} = T_{j,i} = 1 - (1 - T_{i,j})(1 - T_{i,\alpha}T_{\beta,j})$.”

In Eq. (15), $Q_{i,j}$ should be corrected to Q_i .

$N(1 - \phi)$ and S in the labels of Fig. 4 should be deleted.

Reference [10] S. Boccaletti, V. Latora, M. Marchiori, and A. Rapisarda, Phys. Rep. **424**, 175 (2006) should be corrected to [10] S. Boccaletti, V. Latora, Y. Moreno, M. Chavez, and D.-U. Hwang, Phys. Rep. **424**, 175 (2006).

Reference [16] S. N. Dorogovtsev and A. V. Goltsev, Rev. Mod. Phys. **80**, 1275 (2008) should be corrected to [16] S. N. Dorogovtsev, A. V. Goltsev, and J. F. F. Mendes, Rev. Mod. Phys. **80**, 1275 (2008).