

Social and Economic Networks Typos, Corrections, and Clarifications

Matthew O. Jackson

Thank you to Lada Adamic, Jeremy Petranka, John Tsitsiklis, and Rui Zhang for pointing some of these out.

page 29, figure 2.7, was redrawn incorrectly - the original figure appears at the end of this document.

page 31, Figure 2.8: the labels of the axes were reversed

page 48, The proof of Theorem 2.3: to clarify the labeling of the nodes, the longest path that we begin (just listing the nodes in order) is $i, \dots, k-2, k-1, k, k+1, \dots, j$. The cycle is then constructed as $i, k, k+1, \dots, j, k-1, k-2, \dots, i$.

page 85, Paragraph 4 states “As argued above, the probability that...” that argument was moved to the exercises (see Exercise 4.1).

page 109, the last displayed equation should read $G'_H(1) = 1 + \frac{(n-1)p}{1-(n-1)p}$, and then following sentence should have 3 replaced by 2 and 11 replaced by 10.

page 110, The Riemann zeta function is incorrectly listed as $z(\gamma) = \sum_1^\infty \frac{1}{\gamma}$, the correct expression is given on page 30 footnote 12 and is $z(\gamma) = \sum_{n=1}^\infty \frac{1}{n^\gamma}$.

page 111, on the definition of e , the subscript on the summation should be n instead of i .

page 118, the second line, in the definition of $\pi_2(k)$, the subscript on the summation should be $i = 0$ rather than $k = 0$.

page 124, “state networks” should be “static networks”

page 166, Let me explain why it is true that “Thus $|A_{ij}| \geq \frac{c}{2d}$. This implies that any given node i can have at most $2dn/c$ non-bridge links.” Recall that the sets $|A_{ij}|$ are disjoint across $j \neq i$, and so if node i has x such non-bridge links ij , then their union contains at least $\frac{xc}{2d}$ nodes which must be less than n , and so $x < 2dn/c$.

page 187, The second paragraph refers to $m - F(t-1)$, but as noted in footnote 3, m is omitted from the model by setting it equal to 1, and so the expression should be $1 - F(t-1)$.

page 196, last paragraph: β should be ν .

page 265, The second paragraph that states “and a probability $\varepsilon_i(0)$ that i chooses 1” should read “and a probability $\varepsilon_i(0)$ that i chooses 0”

page 284, The arrow in Figure 9.10 refers to the shift in the distributions (not the threshold).

page 472, Citation [264]’s title is “Trade Networks with Transfers.”

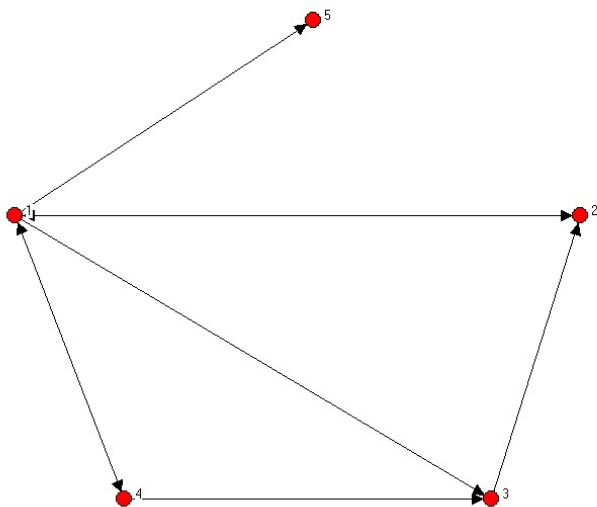


Figure 1: Figure 2.7: A Directed Network on Five Nodes, Node 1 has In-Degree 2 and Out-Degree 4.