[1]
k
k
$P(k)$
k
k
$P(k) \propto$
$k^{-\alpha}$
α
[2]
C
$$C = \frac{1}{N} \sum_{i \in V(G)} \frac{\Delta_i}{k_i(k_i - 1)/2},$$

N
Δ_i
k_i
i
L
$$L = \sum_{i,j \in V(G)} \frac{l(i,j)}{N(N-1)},$$

$V(G)$
G
$l(i,j)$
i
j
$C_{Bitcoin} =$
0.0071
$L_{Bitcoin} =$
3.833
[3]
⋮

$C_{Bitcoin} = 0.0071 L_{Bitcoin} = 3.833$

[4]

[5]
[6]
i, j
i
j
j
i
[7]
[8]
[9]
i
$$O(i) = \frac{n-1}{\sum_{j=1}^{n-1} d(i,j)}$$

n
i
$d(j,i)$
j
i
[10]

Degree distribution

Clustering coefficient and the shortest-path length

Small-world effect

Bitcoin tokens

Connected com-