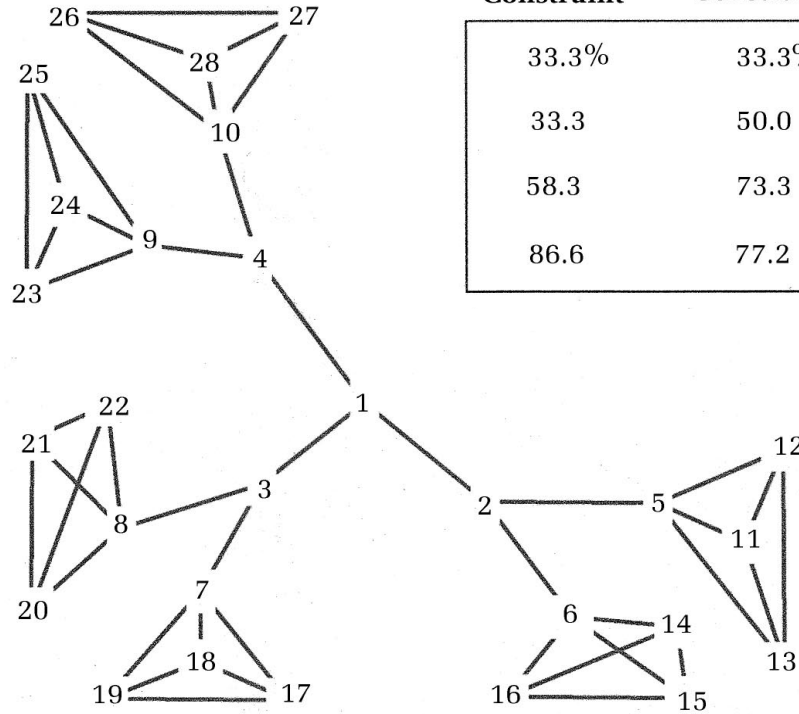


**FIGURE 2**  
**Illustration of Direct and Indirect Network Constraint**



Direct Network Constraint	Indirect Network Constraint	Role in Network
33.3%	33.3%	Broker of brokers (no.1)
33.3	50.0	Broker (nos. 2, 3, 4)
58.3	73.3	Group leader (nos. 5 to 10)
86.6	77.2	Group member (nos. 11 to 28)

$$C_{ij} = \left( p_{ij} + \sum_q p_{iq} p_{qj} \right)^2$$

“where  $p_{ij}$  is the proportion of  $i$ 's network time and energy invested in contact  $j$ ,

$$p_{ij} = \Sigma z_{ij} / \Sigma_q z_{iq}, \quad (q \neq i, j)$$

and variable  $z_{ij}$  measures the strength of connection between contacts  $i$  and  $j$ .”