List of Symbols

Symbol	Description
G	Signed graph or Signed network
$A(G)$	Adjacency matrix of G
Cl_i	i-th cluster
C_n	Signed cycle graph on n vertices
$\det(A)$	Determinant of a square matrix A
$E(G)$	Edge set of G
$\phi(A)$	Characteristic polynomial of A
$\lambda_j(G)$	j-th eigenvalue of G
$K_n^{m,r}$	K_n with m negative cliques each of order r
K_n	Complete graph on n vertices with positive edges
L	Linear subdigraph of $A(G)$
mK_n	Mix complete graph on n vertices
$|G|$	Underlying positive graph of G
E_-	Negative edge set of G
E_+	Positive edge set of G
P_n	Signed path graph on n vertices
$\operatorname{per}(A)$	Permanent of a square matrix A
$\rho(G)$	Spectral radius of G
$\psi(A)$	Permanent polynomial of A
T_n	A signed tree on n vertices
$V(G)$	Vertex set of G
$w(L)$	Weight of L