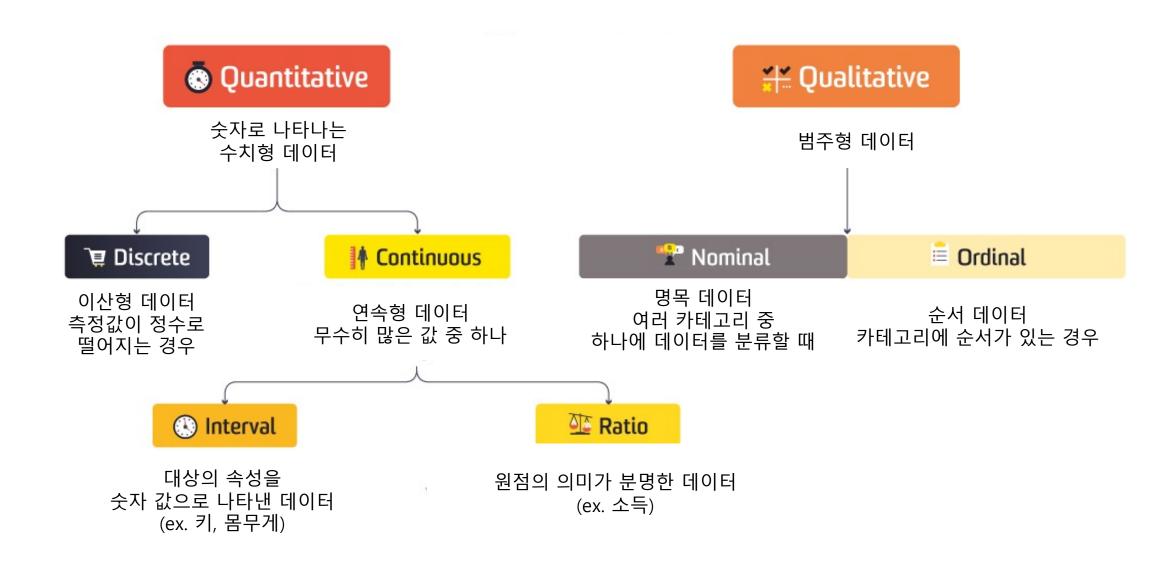
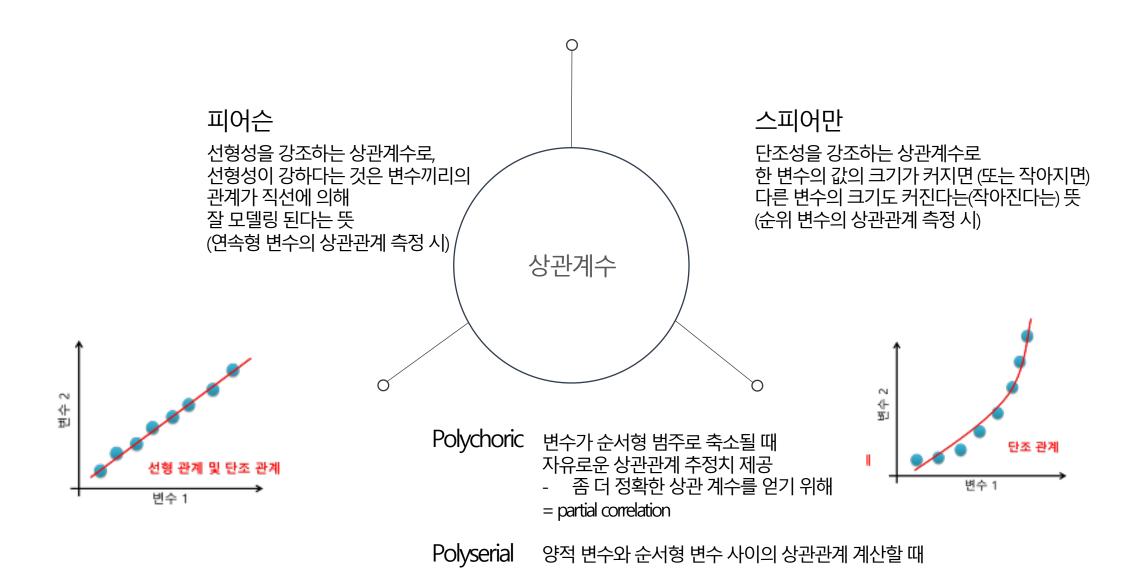
네트워크 분석

산업경영공학과 박혜원

Title1 데이터 타입



Title2 상관계수





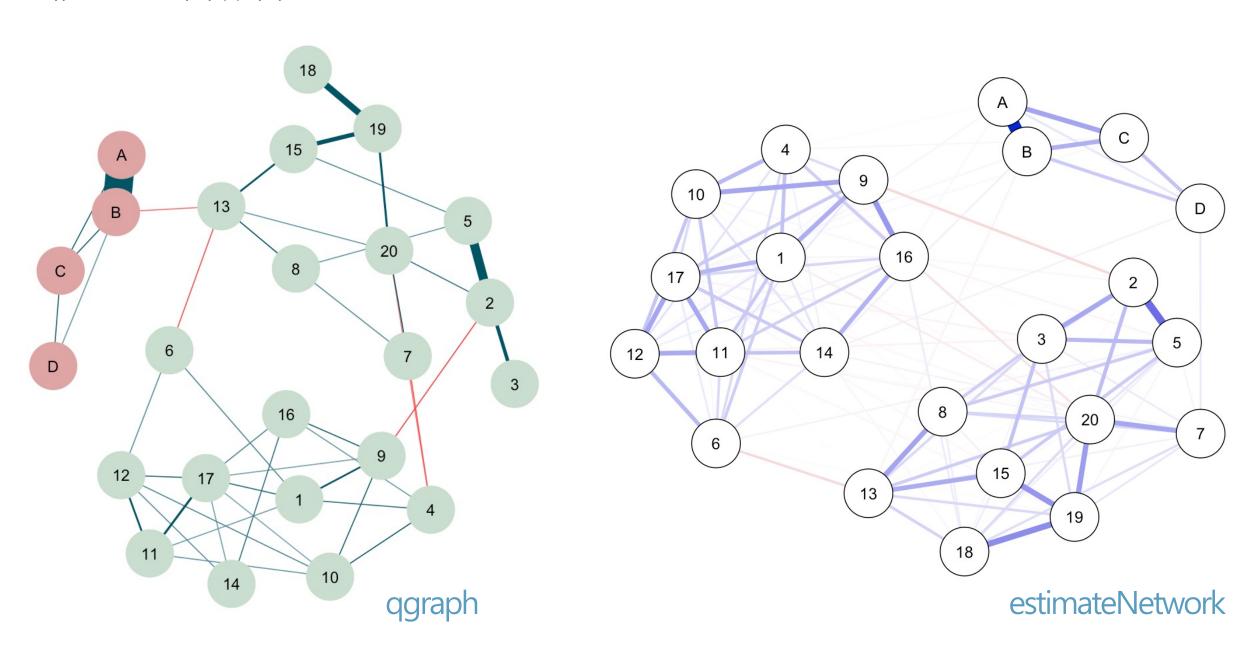
c2,3,4 scaling 하기전 (비교)

Min, max
Scaling

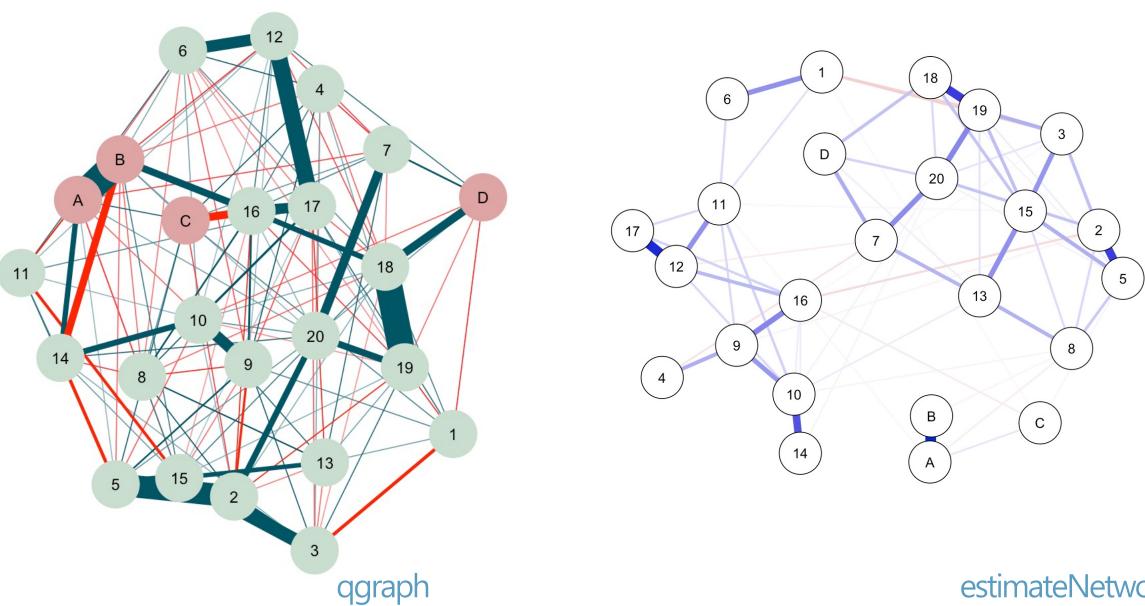
Bootnet
Estimate
Network

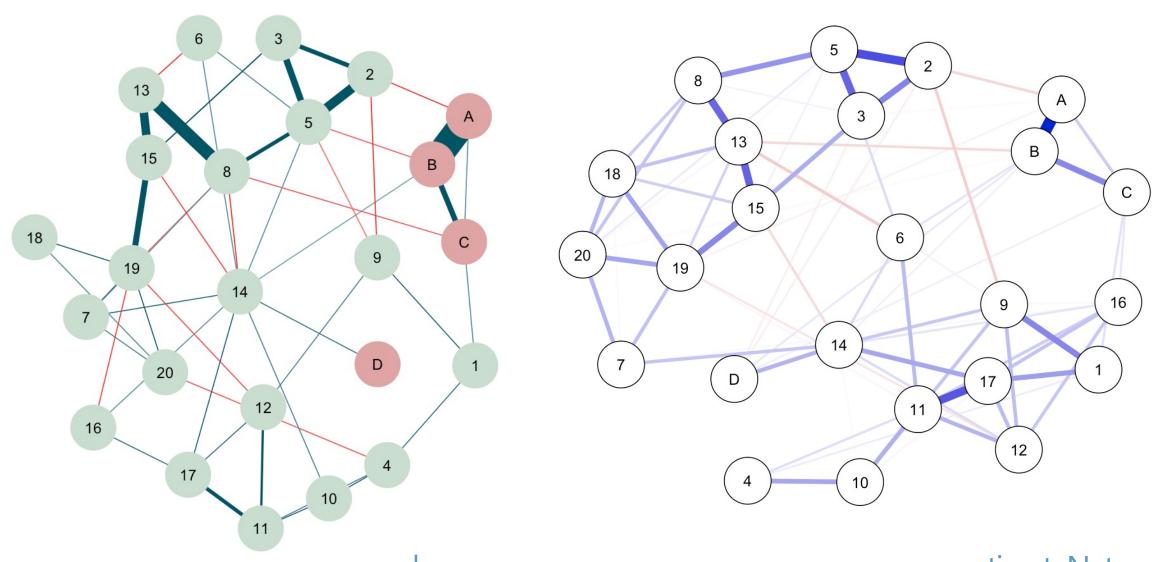
데이터 타입 검사 – vector 틀 구축 – 표 탐색하여 cor_auto에 따라 corMat 구축 – glasso 적용, L1 패널티 사용하여역공분산 matrix 추정 – 역공분산 matrix에 EBIC 적용 – Symmetric화

튜닝 값 동일하게 맞춰야 됨

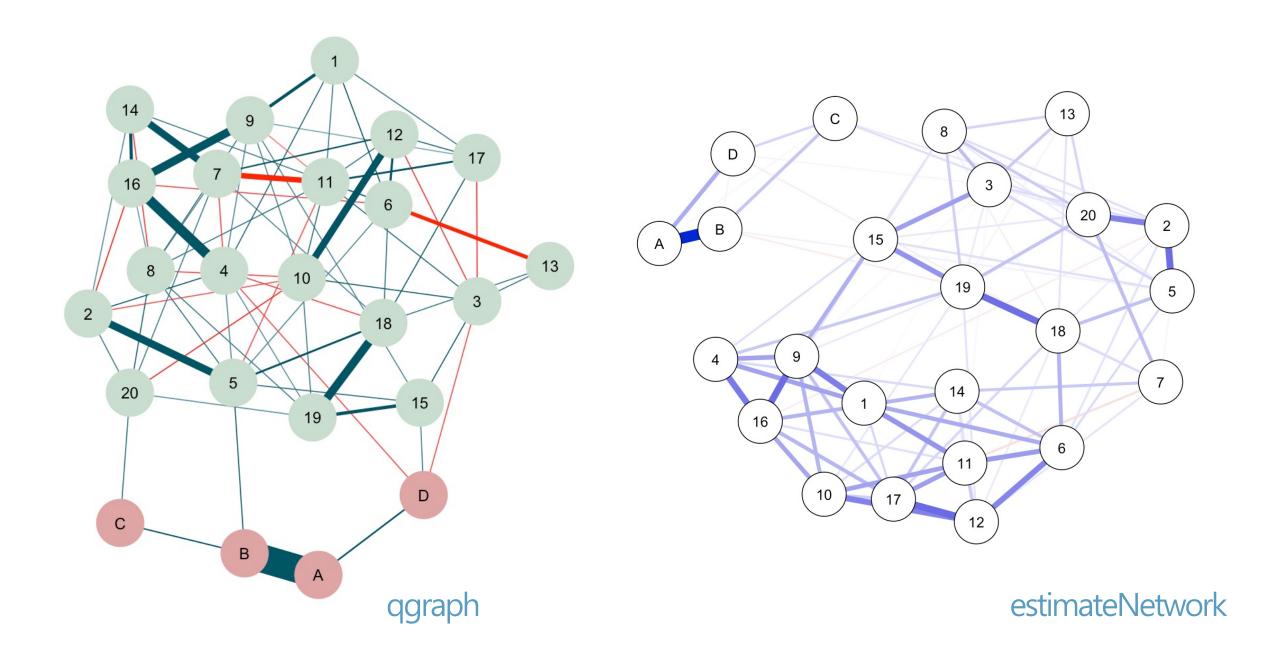


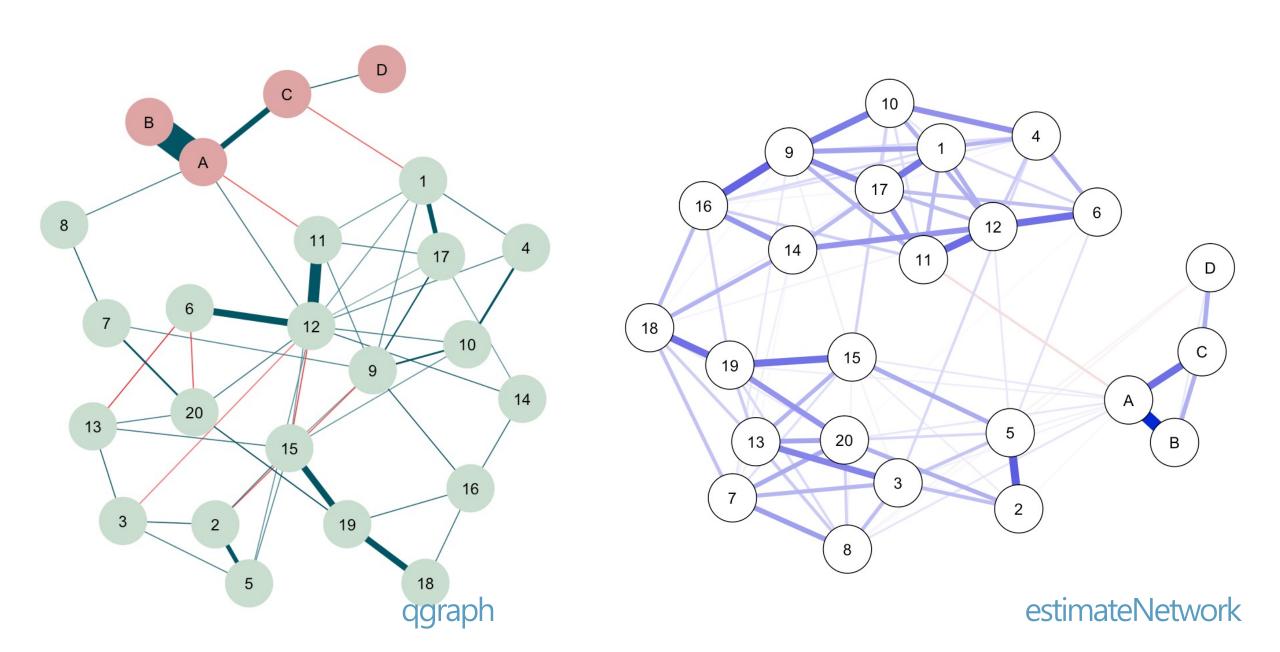
error 다른 방법

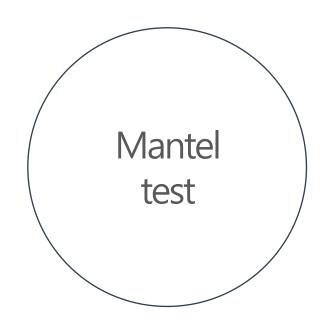




estimateNetwork







두 matrix 간의 유사도를 통계적으로 분석하는 방법

Permutation test? == bootstraping

Perm: data 치환; r값이 의미가 있는지 없는지 확인

$$r = \frac{1}{(n-1)} \sum_{i=1}^{n} \sum_{j=1}^{n} \frac{(x_{ij} - \bar{x})}{s_x} \cdot \frac{(y_{ij} - \bar{y})}{s_y}$$

all	Mantel statistic r : 0.9311 significance : 0.001
1	Mantel statistic r : 0.649 significance : 0.001
2	Mantel statistic r : 0.9317 significance : 0.001
3	Mantel statistic r : 0.7529 significance : 0.001
4	Mantel statistic r : 0.9695 significance : 0.001