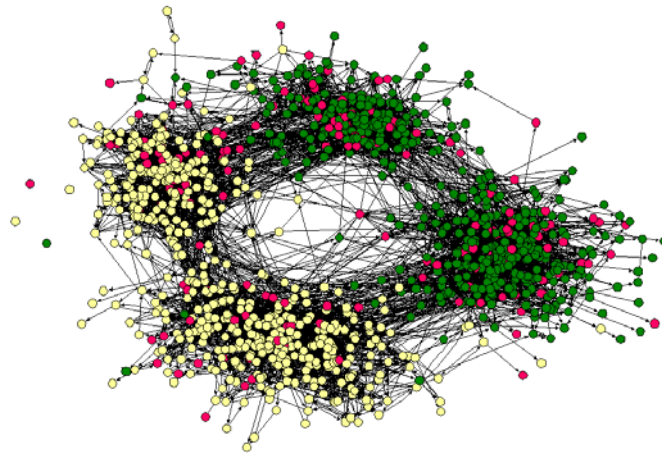
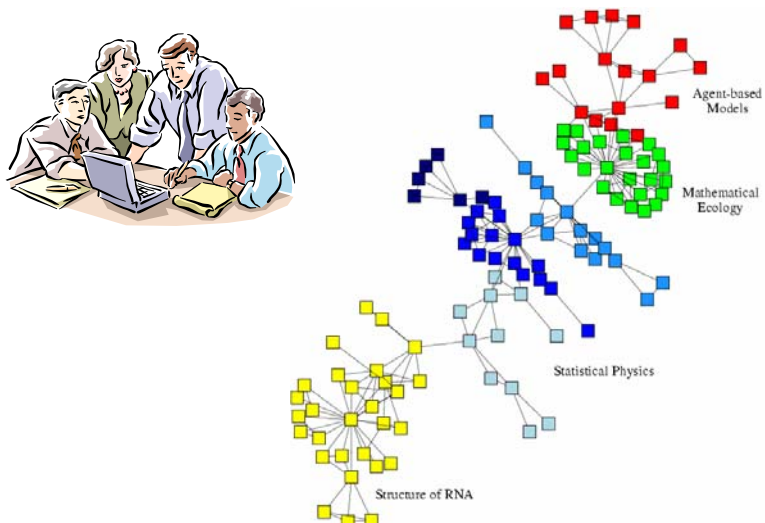


Friendship Network

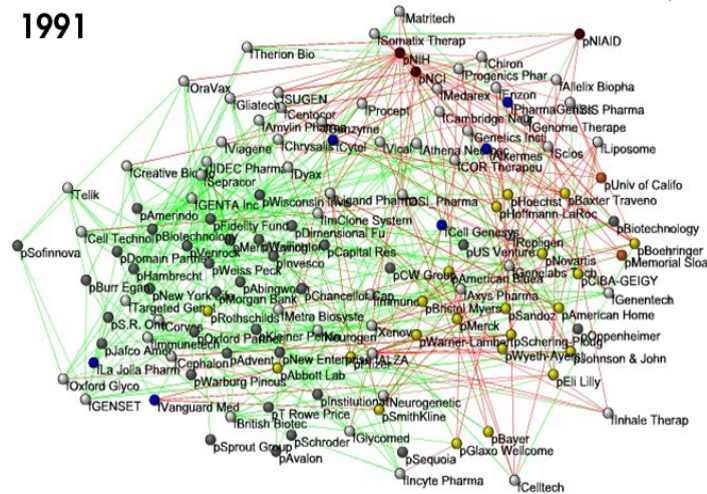


Scientific collaboration network

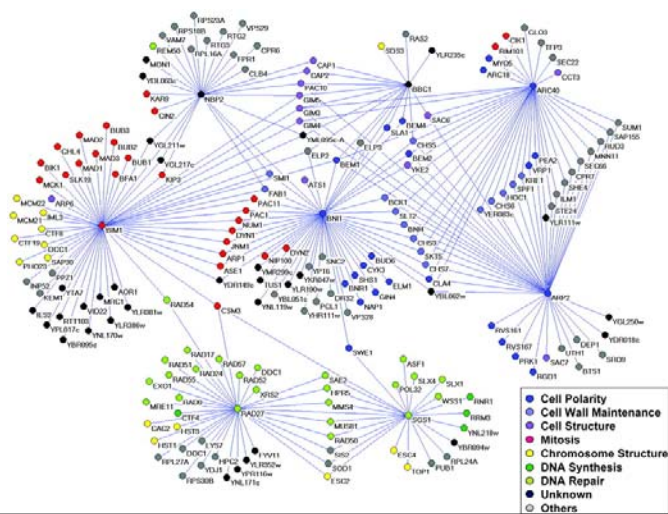


Business ties in US biotech-industry

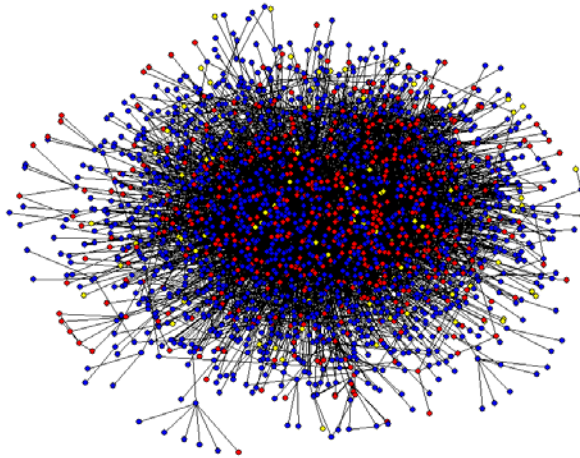
1991



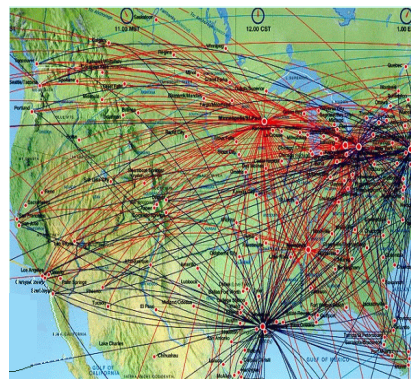
Genetic interaction network



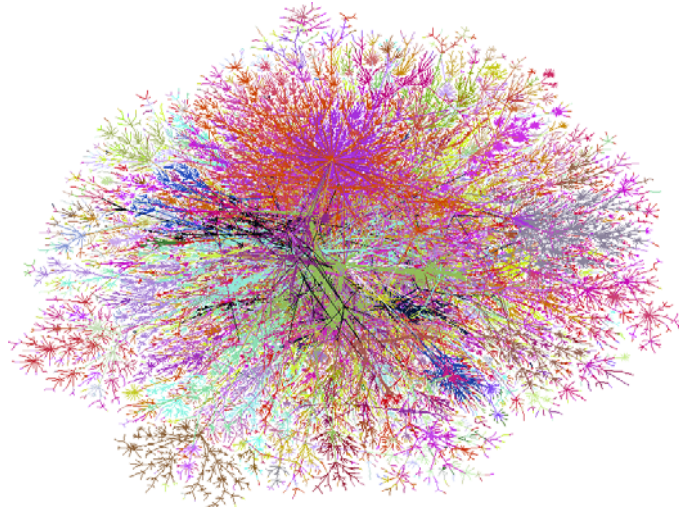
Protein-Protein Interaction Networks



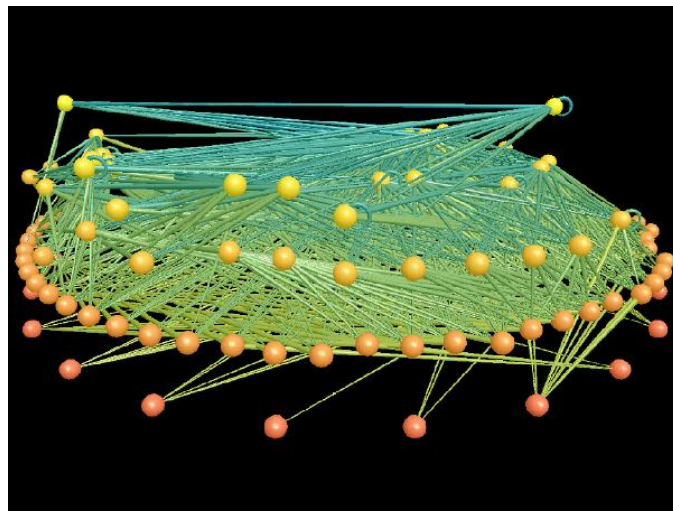
Transportation Networks



Internet

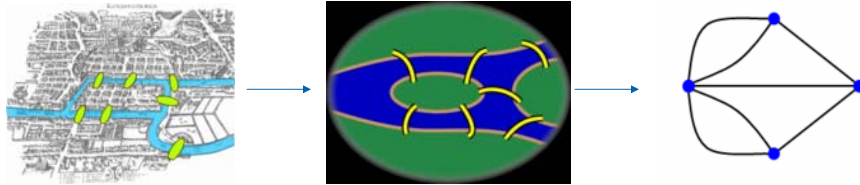


Ecological Networks



Graph Theory - History

Leonhard Euler's paper on
"Seven Bridges of
Königsberg",
published in 1736.



Graph Theory - History

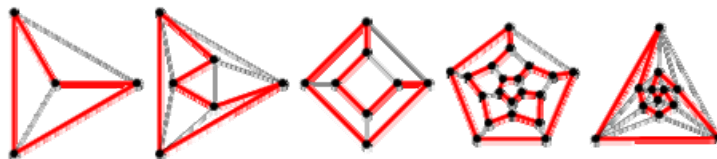
Cycles in Polyhedra



Thomas P. Kirkman



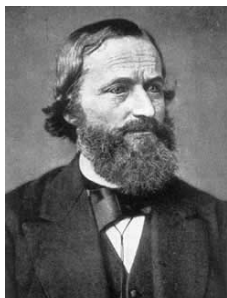
William R. Hamilton



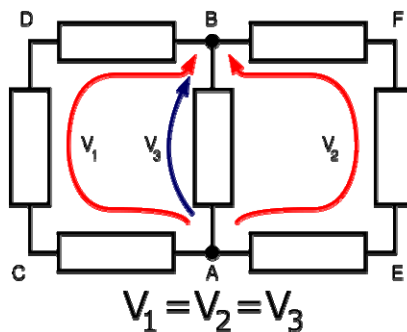
Hamiltonian cycles in Platonic graphs

Graph Theory - History

Trees in Electric Circuits



Gustav Kirchhoff



Graph Theory - History

Enumeration of Chemical Isomers –

n.b. topological distance a.k.a chemical distance



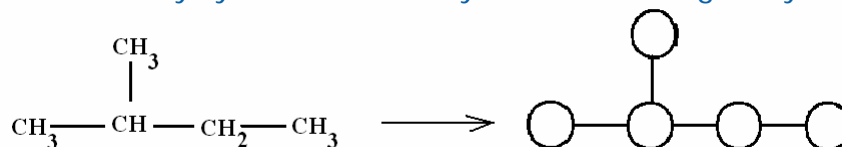
Arthur Cayley



James J. Sylvester



George Polya



Graph Theory - History

Four Colors of Maps



Francis Guthrie



Auguste DeMorgan

