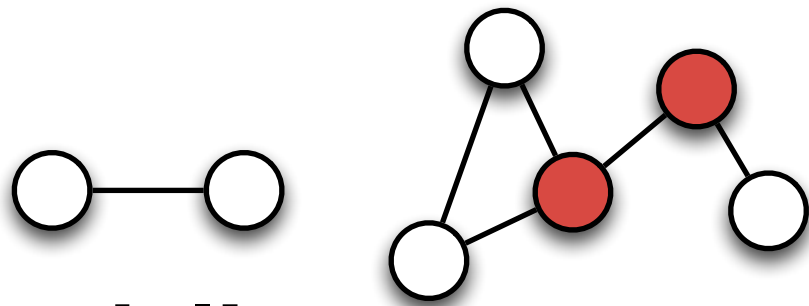


Network Science



Modeling

network structure, growth, evolution

Šubelj & Bajec, In: Proc. of *LSNA '13*, 527-530 (2013).
Šubelj et al., *Advs. Compl. Syst.* 17(7), 1450022 (2014).
Šubelj et al., In: *Proc. of NetSci '14*, p. 1 (2014).
Šubelj & Bajec, *Scientometrics*, in sub. (2016).

Comparison

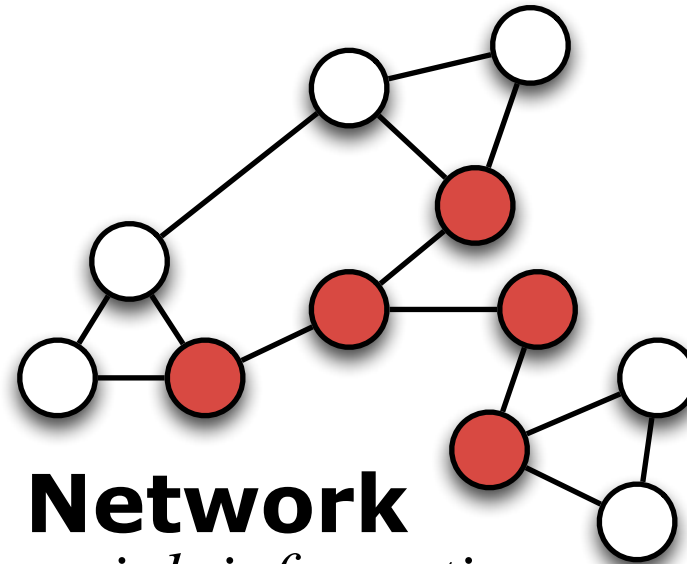
statistical network comparison

Šubelj et al., *Sci. Rep.* 4, 6496 (2014).
Šubelj et al., In: Proc. of *NetSci '15*, p. 1 (2015).
Šubelj et al., *PLoS ONE* 10(5), e0127390 (2015).

Applications

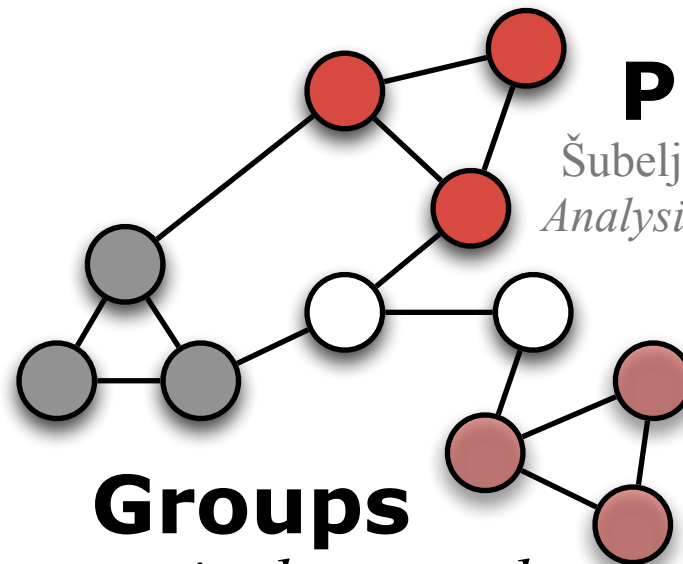
fraud, software, bibliometrics

Šubelj et al., *Exp. Syst. Appl.* 38(1), 1039-1052 (2011).
Šubelj & Bajec, *Physica A* 390(16), 2968-2975 (2011).
Šubelj & Bajec, In: *Proc. of SoftMine '12*, 9-16 (2012).
Šubelj & Bajec, *Patent SI-24553-A*, pp. 5 (2015).
Šubelj et al., In: *Proc. of NetSci-X '16*, p. 1 (2016).
Šubelj & Fiala, *JASIST*, in press (2016).
Šubelj et al., *PLoS ONE*, in review (2016).



Network

social, information, technological networks



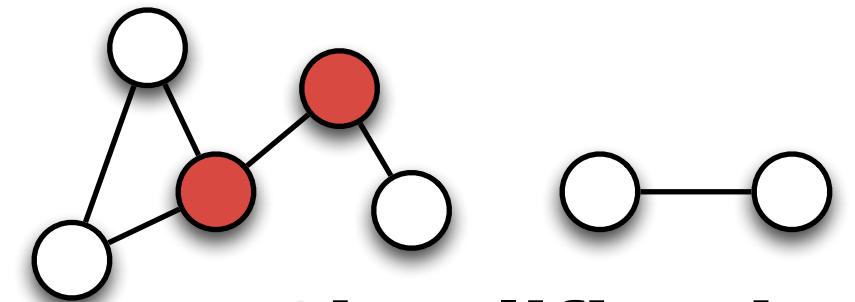
Groups

equivalence, roles

Šubelj & Bajec, *Phys. Rev. E* 83(3), 036103 (2011).
Šubelj & Bajec, *Eur. Phys. J. B* 85(1), 32 (2012).
Šubelj et al., In: *Proc. of NetSci '13*, 152-153 (2013).
Šubelj & Bajec, *Physica A* 397, 144-156 (2014).
Šubelj & Bajec, In: *Proc. of EUSN '14*, p. 284 (2014).
Šubelj, In: *Proc. of NetSci '15*, p. 1 (2015).
Šubelj, In: *Proc. of ARS '15*, p. 78 (2015).

Projects

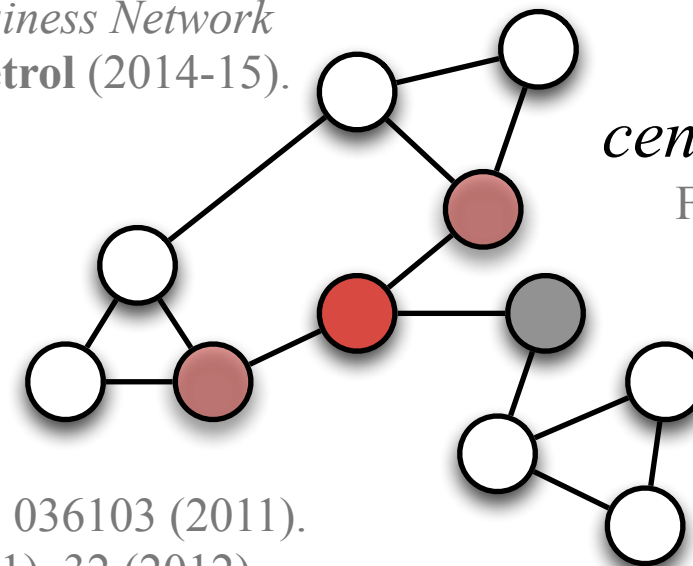
Šubelj, *Business Network Analysis, Petrol* (2014-15).



Simplification

sampling, sparsification, aggregation

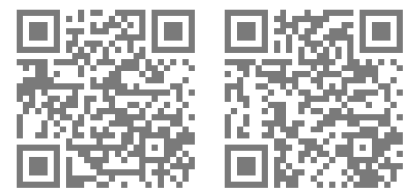
Blagus et al., *Physica A* 391(8), 2794-2802 (2012).
Blagus et al., In: *Proc. of NetSci '13*, p. 166 (2013).
Blagus et al., In: *Proc. of NetSci '14*, p. 1 (2014).
Blagus et al., *Physica A* 413, 134-146 (2014).
Blagus et al., *Physica A* 432, 206-215 (2015).



Nodes

centrality, influence

Fiala et al., *J. Informetr.* 9(2), 334-348 (2015).



Dynamics

dynamics, reconstruction

Levnajić, *Sci. Rep.* 2, 967 (2012).
Levnajić et al., *Sci. Rep.* 4, 5030 (2014).
Levnajić, *Phys. Rev. Lett.* 107, 034101 (2011).