

Table S1: Real networks analyzed in this paper.

Type	Name	$N$	$L$	Description
Regulatory	TRN-Yeast-1 [1]	4,441	12,873	Transcriptional regulatory network of <i>S. cerevisiae</i>
	TRN-Yeast-2 [2]	688	1,079	Same as above (compiled by different group)
	TRN-EC-2 [2]	418	519	Transcriptional regulatory network of <i>E. coli</i>
Trust	Ownership-USCrop [3]	7,253	6,726	Ownership network of US corporations
	College student [4, 5]	32	96	Social networks of positive sentiment (college students)
	Prison inmate [4, 5]	67	182	Same as above (prison inmates)
	WikiVote [6]	7,115	103,689	Who-vote-whom network of Wikipedia users
Food web	Ythan [7]	135	601	Food Web in Ythan Estuary
	Little Rock [8]	183	2,494	Food Web in Little Rock lake
	Grassland [7]	88	137	Food Web in Grassland
	Seagrass [9]	49	226	Food Web in St. Marks Seagrass
Metabolic	<i>E. coli</i> [10]	2,275	5,763	Metabolic network of <i>E. coli</i>
	<i>S. cerevisiae</i> [10]	1,511	3,833	Metabolic network of <i>S. cerevisiae</i>
	<i>C. elegans</i> [10]	1,809	1,303	Metabolic network of <i>C. elegans</i>
Electronic circuits	s838 [2]	512	819	Electronic sequential logic circuit
	s420 [2]	252	399	Same as above
	s208 [2]	122	189	Same as above
Neuronal	<i>C. elegans</i> [11]	297	2,345	Neural network of <i>C. elegans</i>
WWW	Political blogs [12]	1,224	19,025	Hyperlinks between weblogs on US politics
Internet	p2p-1 [13, 14]	10,876	39,994	Gnutella peer-to-peer file sharing network
	p2p-2 [13, 14]	8,846	31,839	Same as above (at different time)
	p2p-3 [13, 14]	8,717	31,525	Same as above (at different time)
Organizational	Consulting [15]	46	879	Social network from a consulting company
	Manufacturing [15]	77	2,228	Social network from a manufacturing company
	University [16]	81	817	Social network among faculty members at a UK university

All the networks are directed; for each network, we show its type, name and reference; number of nodes ( $N$ ) and edges ( $L$ ); and brief description.

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