

# Отчет по проекту “Теория графов и ее приложения”

## Свойства сетей

	d-f	d-c	m-d-r	o-u	p-l	r-e-e	s-s-b-a	s-s-b-o	s-m	s-s
NumVerts	279374	906	30360	1899	89269	167	3783	5881	24759	192409
NumEdges	1546540	10429	85155	13838	3330022	3250	14124	21492	187986	714570
GrDens	0.00004	0.02544	0.00018	0.00768	0.00084	0.23447	0.00197	0.00124	0.00061	0.00004
NumComp	6880	25	335	4	47	1	5	4	45	1521
MC_ShareVerts	0.93493	0.93709	0.97668	0.99684	0.99890	1.00000	0.99789	0.99898	0.99632	0.98328
MC_Rad	–	4	–	–	–	3	–	–	–	–
MC_RS_Rad	10	4	7	4	5	3	5	6	5	7
MC_SS_Rad	10	4	7	4	5	3	5	5	5	7
MC_Diam	–	8	–	–	–	5	–	–	–	–
MC_RS_Diam	14	8	11	8	7	5	9	8	8	11
MC_SS_Diam	15	8	12	7	7	5	9	9	8	11
MC_90P	–	4	–	–	–	3	–	–	–	–
MC_RS_90P	6	4	6	4	4	3	5	5	4	5
MC_SS_90P	6	4	6	4	4	3	5	5	4	5
MC_CC	+	0.50719	0.00542	0.10975	–	0.59186	0.17700	0.17769	–	–
MC_RS_CC	0.09046	0.50406	0.00262	0.12199	0.00478	0.59186	0.15956	0.17011	0.31242	0.12072
MC_SS_CC	0.10235	0.50672	0.01035	0.10832	0.00387	0.59186	0.17315	0.18345	0.32202	0.12009
MC_PC	-0.05712	-0.13310	0.00265	-0.18802	-0.07833	-0.29518	-0.16866	-0.16489	-0.21534	-0.09386

Тестовые графы

	tg1	tg2	tg3	tg4	tg5	tg6	tg7
NumVerts	9	34	77	62	198	19428	325729
NumEdges	13	78	254	159	2742	96662	1090108
GrDens	0.36111	0.13904	0.08681	0.08408	0.14059	0.00051	0.00002
NumComp	1	1	1	1	1	23	1
MC_ShareVerts	1.00000	1.00000	1.00000	1.00000	1.00000	0.99676	1.00000
MC_Rad	2	3	3	5	4	6	—
MC_RS_Rad	2	3	3	5	4	7	24
MC_SS_Rad	2	3	3	5	4	7	24
MC_Diam	3	5	5	8	6	11	—
MC_RS_Diam	3	5	5	8	6	10	38
MC_SS_Diam	3	5	5	8	6	10	40
MC_90P	3	4	4	5	3	6	—
MC_RS_90P	3	4	4	5	3	6	10
MC_SS_90P	3	4	4	5	3	6	10
MC_CC	0.40000	0.57064	0.57314	0.25896	0.61745	0.00000	—
MC_RS_CC	0.40000	0.57064	0.57314	0.25896	0.61745	0,00000	0.23530
MC_SS_CC	0.40000	0.57064	0.57314	0.25896	0.61745	0.00000	0.23249
MC_PC	-0.20370	-0.47561	-0.16523	-0.04359	0.02024	-0.19168	-0.05344

Предсказания появления ребер в графе

AUC

	d-f	d-c	m-d-r	o-u	p-l	r-e-e	s-s-b-a	s-s-b-o	s-m	s-s
my I	0.81617	0.92627	0.85212	0.73031	0.82249	0.85859	0.89736	0.80518	0.91611	0.88335
I	0.891	0.920	0.837	0.731	0.786	0.864	0.868	0.821	0.859	0.921
my II-A	0.87771	0.93745	0.8559	0.75683	0.8759	0.8719	0.88106	0.78684	0.91531	0.89577
II-A	0.926	0.944	0.866	0.893	0.947	0.921	0.945	0.947	0.944	0.965