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SSS Algorithms for Max-Cut (supplementary material)

Claudio Gentile, Giovanni Rinaldi, Esteban Salgado

Istituto di Analisi dei Sistemi ed Informatica “A. Ruberti”, CNR, Rome, Italy – `<first>.<last>@iasi.cnr.it`

This appendix is to show the full tables that were exposed only partially in the paper.

Table 1 is shown here only to validate our statistical computations when applied to the raw data provided by DGS.

Table 1 Original paper

Heuristic	FE	FS	BA	WD	MD	BD	AR
BUR02	22.9	16.2	32.7	0.5	0.4	0.2	10.1
FES02GVP	21.3	4.1	29.9	0.7	0.6	0.5	9.7
FES02GP	19.3	5.5	27.1	0.9	0.8	0.6	13.6
PAL04T3	19.3	2.4	30.6	0.8	0.7	0.6	7.5
FES02GV	18.0	1.5	26.0	0.9	0.7	0.6	10.8
PAL04T2	17.0	8.1	33.3	0.9	0.6	0.4	7.8
BEA98TS	16.4	5.0	22.3	2.7	2.4	2.2	16.3
LU10	14.9	2.7	24.0	1.8	1.5	1.2	12.8
FES02G	14.5	2.6	19.6	1.5	1.3	1.2	17.7
MER04	14.3	3.2	24.4	0.8	0.7	0.5	8.3
PAL04T1	14.0	2.7	21.7	2.5	2.2	2.0	15.0
MER99LS	12.8	7.0	30.9	0.8	0.5	0.3	9.2
MER02GRK	12.6	0.6	19.2	0.8	0.7	0.6	11.6
MER02LSK	11.3	0.5	19.3	1.1	0.9	0.8	12.8
PAL04T5	9.5	2.4	21.1	3.1	2.5	2.0	17.4
PAL06	9.4	0.9	21.9	2.5	2.0	1.5	16.0
ALK98	7.5	2.9	15.6	0.8	0.7	0.6	12.3
PAL04T4	7.3	0.2	18.5	3.9	3.3	2.7	20.4
GLO10	6.1	0.3	21.8	2.2	1.8	1.4	15.0
KAT00	6.0	0.2	16.2	1.6	1.2	1.0	16.0
FES02V	6.0	0.3	15.1	1.4	1.2	1.0	13.4
FES02VP	5.8	0.1	16.1	1.1	0.9	0.7	12.1
PAL04MT	5.1	0.3	16.8	4.1	3.4	2.8	22.5
MER02GR	3.4	0.0	5.6	3.3	3.1	2.9	24.2
GLO98	2.5	0.1	8.1	2.2	1.9	1.6	22.8
HAS00TS	2.2	0.4	7.2	1.7	1.4	1.1	19.7
HAS00GA	2.1	0.2	10.6	2.3	1.9	1.6	20.3
MER02LS1	1.8	0.0	6.3	3.1	2.9	2.7	24.6
PAR08	1.7	0.2	11.3	3.0	2.5	2.1	17.3
KAT01	1.6	0.6	4.0	2.8	2.5	2.2	25.8
DUA05	0.8	0.2	6.1	2.1	1.8	1.5	17.0
LOD99	0.7	0.0	3.4	5.7	5.3	4.9	29.9
LAG09HCE	0.4	0.3	4.1	2.3	2.0	1.6	19.7
BEA98SA	0.4	0.0	1.3	4.9	4.1	3.3	30.4
MER99MU	0.0	0.0	0.0	24.8	23.3	21.8	35.7
MER99CR	0.0	0.0	0.0	16.0	14.5	13.0	34.6
LAG09CE	0.0	0.0	0.0	30.9	30.1	29.2	36.9

Table 2 DGS least dense (up to 3%): NN-SSS Vs. 37 heuristics

Heuristic	FE	FS	BA	EBA	WD	MD	BD	AR
NN-SSS	56.8	38.8	64.1	64.1	0.5	0.3	0.2	4.4
FES02GP	27.4	4.2	31.6	3.0	1.4	1.2	1.0	8.0
FES02GVP	25.4	2.6	31.6	2.5	1.1	1.0	0.8	5.8
FES02G	24.7	3.0	29.5	3.8	2.1	1.9	1.8	11.0
BUR02	24.6	16.6	32.2	13.8	0.7	0.6	0.4	5.6
FES02GV	22.8	1.3	29.7	2.3	1.4	1.3	1.1	7.0
PAL04T3	16.5	0.7	21.5	0.8	1.6	1.4	1.2	8.5
MER02GRK	10.6	0.2	13.3	0.0	1.4	1.2	1.0	9.4
MER02LSK	7.6	0.1	11.6	0.1	1.8	1.6	1.3	12.0
MER04	7.2	0.0	11.4	0.0	1.6	1.3	1.1	10.6
MER02GR	6.2	0.0	8.8	0.0	2.8	2.7	2.5	17.8
HAS00TS	4.4	0.0	6.8	0.0	2.6	2.2	1.9	17.0
ALK98	4.1	3.5	5.9	1.8	1.5	1.3	1.0	12.1
MER99LS	4.0	3.0	15.7	5.9	1.4	1.0	0.7	7.7
KAT00	3.7	0.0	7.9	0.0	3.9	2.7	1.9	17.5
PAL04T2	1.6	0.6	6.8	1.4	2.0	1.4	0.9	10.8
PAL04T1	1.5	0.0	4.1	0.1	5.0	4.5	4.0	23.4
FES02VP	1.2	0.0	5.7	0.0	2.1	1.8	1.4	12.7
BEA98TS	1.1	0.0	4.4	0.1	5.3	4.8	4.3	25.2
LU10	1.0	0.0	3.9	0.1	4.2	3.7	3.1	22.5
FES02V	0.8	0.0	3.2	0.0	2.6	2.2	1.9	14.7
PAL06	0.8	0.1	4.0	0.2	4.7	3.8	3.0	23.4
PAL04T5	0.7	0.1	3.5	0.2	5.3	4.4	3.6	25.6
GLO98	0.6	0.0	1.9	0.0	3.8	3.3	2.8	21.3
GLO10	0.5	0.2	3.5	0.2	6.9	5.1	3.9	24.5
KAT01	0.5	0.0	0.9	0.0	4.9	4.5	4.1	27.1
LOD99	0.5	0.0	2.6	0.0	7.9	7.3	6.7	28.5
BEA98SA	0.3	0.0	0.9	0.0	7.0	6.1	5.3	30.8
PAL04T4	0.3	0.0	2.8	0.0	7.2	6.1	5.2	29.9
DUA05	0.2	0.0	0.6	0.0	3.2	2.8	2.4	17.7
HAS00GA	0.2	0.0	1.2	0.0	4.0	3.5	3.1	20.2
MER02LS1	0.2	0.0	0.4	0.0	5.6	5.3	5.0	25.9
LAG09HCE	0.2	0.0	0.2	0.0	4.3	3.8	3.3	21.7
PAR08	0.1	0.0	0.3	0.0	7.6	4.9	3.4	21.9
PAL04MT	0.1	0.0	0.5	0.0	63.9	63.6	63.2	35.3
MER99CR	0.0	0.0	0.0	0.0	30.3	28.5	26.7	35.4
MER99MU	0.0	0.0	0.0	0.0	37.5	36.3	35.2	36.4
LAG09CE	0.0	0.0	0.0	0.0	39.5	38.8	38.0	37.1

Table 3 DGS toroidal: P-SSS and NN-SSS Vs. 37 heuristics

Heuristic	FE	FS	BA	EBA	WD	MD	BD	AR
P-SSS	83.3	32.5	100.0	40.0	0.0	0.0	0.0	2.0
NN-SSS	62.5	5.0	75.8	60.0	0.4	0.2	0.1	1.6
FES02GVP	37.5	0.0	43.3	0.0	2.2	2.0	1.8	6.1
FES02GP	36.7	0.0	43.3	0.0	2.6	2.4	2.0	7.1
PAL04T3	32.5	0.0	36.7	0.0	2.8	2.5	2.3	8.6
FES02GV	31.7	0.0	40.0	0.0	3.6	3.4	3.2	9.3
FES02G	31.7	0.0	37.5	0.0	4.9	4.6	4.4	11.4
MER02GRK	30.8	0.0	34.2	0.0	1.6	1.4	1.2	6.3
MER02LSK	30.0	0.0	35.8	0.0	1.6	1.4	1.2	6.6
HAS00TS	27.5	0.0	29.2	0.0	2.6	2.2	1.8	10.0
BUR02	26.7	0.0	40.8	0.0	1.1	0.9	0.7	5.0
MER04	23.3	0.0	32.5	0.0	2.5	2.1	1.7	8.9
KAT00	20.8	0.0	32.5	0.0	2.6	2.1	1.6	11.3
MER02GR	12.5	0.0	17.5	0.0	4.8	4.6	4.4	16.6
PAL04T1	11.7	0.0	17.5	0.0	9.9	9.2	8.6	23.4
BEA98TS	9.2	0.0	19.2	0.0	9.9	9.2	8.5	23.8
PAL04T2	7.5	0.0	23.3	0.0	3.3	2.5	1.8	11.9
FES02VP	7.5	0.0	20.0	0.0	3.0	2.5	1.9	13.6
PAL06	5.8	0.0	20.8	0.0	8.2	6.5	5.1	21.3
PAL04T5	4.2	0.0	14.2	0.0	8.1	6.6	5.3	23.7
FES02V	3.3	0.0	10.8	0.0	4.3	3.7	3.2	17.9
LU10	3.3	0.0	15.8	0.0	6.9	5.4	4.3	21.3
GLO10	3.3	0.0	18.3	0.0	12.7	9.9	7.8	25.6
MER99LS	2.5	0.0	15.8	0.0	2.9	2.2	1.6	13.4
ALK98	1.7	0.0	5.0	0.0	2.4	2.1	1.7	15.5
KAT01	1.7	0.0	4.2	0.0	8.0	7.4	6.7	26.5
BEA98SA	1.7	0.0	6.7	0.0	10.8	9.7	8.6	28.4
PAL04T4	1.7	0.0	11.7	0.0	13.9	11.8	9.9	30.0
PAL04MT	0.8	0.0	6.7	0.0	14.5	12.8	10.8	32.0
DUA05	0.0	0.0	0.8	0.0	5.6	4.9	4.2	21.5
LAG09HCE	0.0	0.0	0.0	0.0	7.6	6.7	5.8	25.6
GLO98	0.0	0.0	0.0	0.0	7.8	6.8	5.7	24.7
HAS00GA	0.0	0.0	1.7	0.0	8.3	7.2	6.4	23.6
LOD99	0.0	0.0	4.2	0.0	8.9	7.8	6.8	27.1
PAR08	0.0	0.0	2.5	0.0	15.6	10.2	5.8	24.9
MER02LS1	0.0	0.0	0.0	0.0	12.3	11.9	11.4	30.5
MER99CR	0.0	0.0	0.0	0.0	40.6	38.6	36.6	36.8
MER99MU	0.0	0.0	0.0	0.0	51.4	50.5	49.6	37.8
LAG09CE	0.0	0.0	0.0	0.0	55.1	54.6	54.0	38.7

Table 4 Chimera: SELBY and NN-SSS Vs. 37 heuristics

Heuristic	FE	FS	BA	EBA	WD	MD	BD	AR
SELBY	86.1	69.0	92.7	81.5	0.4	0.2	0.0	1.1
NN-SSS	28.5	13.7	71.0	18.0	0.9	0.5	0.2	1.7
ALK98	6.1	0.0	25.4	0.0	16.9	14.7	12.3	6.5
MER99LS	1.0	0.0	18.0	0.0	34.3	28.9	23.2	9.2
BUR02	0.2	0.2	1.0	0.5	16.7	13.8	10.8	13.1
PAL04T3	0.0	0.0	1.2	0.0	6.2	4.8	3.6	8.5
MER02GRK	0.0	0.0	0.2	0.0	8.2	7.1	6.0	8.6
MER02LSK	0.0	0.0	0.0	0.0	8.5	7.2	5.7	10.1
MER04	0.0	0.0	0.7	0.0	8.8	7.7	6.5	9.4
PAL04T2	0.0	0.0	2.9	0.0	13.4	9.1	6.0	8.5
KAT00	0.0	0.0	0.0	0.0	13.4	10.7	8.0	15.1
HAS00TS	0.0	0.0	0.0	0.0	16.9	14.9	12.8	16.6
FES02GVP	0.0	0.0	1.0	0.0	23.3	18.2	13.4	10.7
FES02VP	0.0	0.0	2.0	0.0	25.6	20.2	15.0	10.9
MER02GR	0.0	0.0	0.0	0.0	27.1	25.3	23.4	23.8
FES02GP	0.0	0.0	0.0	0.0	35.3	28.5	21.6	16.2
LOD99	0.0	0.0	0.0	0.0	34.4	32.7	30.9	22.7
PAL06	0.0	0.0	0.0	0.0	42.9	33.2	21.6	21.5
PAL04T5	0.0	0.0	2.0	0.0	41.5	33.6	21.8	15.5
FES02V	0.0	0.0	0.5	0.0	42.2	41.8	41.3	15.1
FES02GV	0.0	0.0	0.2	0.0	42.5	42.1	41.6	16.0
LU10	0.0	0.0	1.5	0.0	43.2	42.1	40.1	19.1
LAG09HCE	0.0	0.0	0.2	0.0	43.0	42.4	41.8	16.3
DUA05	0.0	0.0	0.0	0.0	43.3	42.8	42.3	16.6
HAS00GA	0.0	0.0	0.0	0.0	43.7	43.0	42.3	19.7
GLO98	0.0	0.0	0.0	0.0	44.3	43.3	41.9	21.6
PAR08	0.0	0.0	0.0	0.0	43.9	43.3	42.8	19.3
PAL04T1	0.0	0.0	0.0	0.0	44.3	43.5	42.4	22.1
BEA98TS	0.0	0.0	0.0	0.0	44.3	43.7	43.0	23.0
GLO10	0.0	0.0	0.0	0.0	45.0	43.7	42.3	23.0
KAT01	0.0	0.0	0.0	0.0	44.8	44.3	43.7	21.0
FES02G	0.0	0.0	0.0	0.0	46.4	45.8	45.1	25.0
PAL04T4	0.0	0.0	0.0	0.0	47.7	45.9	44.2	26.5
MER02LS1	0.0	0.0	0.0	0.0	47.2	46.8	46.2	27.2
BEA98SA	0.0	0.0	0.0	0.0	48.4	47.0	45.7	26.4
MER99CR	0.0	0.0	0.0	0.0	77.3	75.1	72.9	29.5
PAL04MT	0.0	0.0	0.0	0.0	82.5	82.1	81.6	29.9
MER99MU	0.0	0.0	0.0	0.0	86.5	85.3	84.2	30.0
LAG09CE	0.0	0.0	0.0	0.0	90.0	89.4	88.6	30.5

Table 5 Big Torii: 37 heuristics

Heuristic	FE	FS	BA	EBA	WD	MD	BD	AR
BUR02	50.0	50.0	50.0	50.0	0.35	0.26	0.18	2.0
KAT01	50.0	50.0	50.0	50.0	7.72	7.64	7.55	9.0
ALK98	0.0	0.0	0.0	0.0	2.17	2.12	2.06	2.9
BEA98SA	0.0	0.0	0.0	0.0	8.02	7.87	7.72	9.9
HAS00TS	0.0	0.0	0.0	0.0	9.64	9.35	9.08	6.0
FES02VP	0.0	0.0	0.0	0.0	11.71	11.17	10.75	5.1
FES02V	0.0	0.0	0.0	0.0	11.67	11.17	10.73	5.1
PAL04T5	0.0	0.0	0.0	0.0	13.29	13.11	12.92	9.5
PAL06	0.0	0.0	0.0	0.0	16.55	15.60	14.66	7.7
MER02LS1	0.0	0.0	0.0	0.0	17.94	17.82	17.69	11.2
GLO98	0.0	0.0	0.0	0.0	18.50	18.27	18.05	12.2
BEA98TS	0.0	0.0	0.0	0.0	18.68	18.56	18.42	10.8
PAL04T1	0.0	0.0	0.0	0.0	18.85	18.65	18.44	12.0
PAL04MT	0.0	0.0	0.0	0.0	18.92	18.70	18.47	12.9
PAL04T4	0.0	0.0	0.0	0.0	19.13	18.91	18.69	12.3
PAL04T2	0.0	0.0	0.0	0.0	19.15	18.93	18.71	13.9
LOD99	0.0	0.0	0.0	0.0	26.59	25.44	24.40	17.9
DUA05	0.0	0.0	0.0	0.0	56.09	55.95	55.81	14.5
MER02GR	0.0	0.0	0.0	0.0	65.73	64.33	63.39	14.8
MER04	0.0	0.0	0.0	0.0	97.65	93.88	88.24	20.6
MER99CR	0.0	0.0	0.0	0.0	98.11	97.89	97.63	19.0
LAG09CE	0.0	0.0	0.0	0.0	98.63	98.50	98.36	20.2
MER99MU	0.0	0.0	0.0	0.0	98.88	98.64	98.44	20.7
FES02G	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
FES02GP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
FES02GV	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
FES02GVP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
LAG09HCE	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
GLO10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
HAS00GA	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
KAT00	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
LU10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
MER99LS	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
MER02GRK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
MER02LSK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
PAL04T3	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0
PAR08	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.0

Table 6 Big Torii (Gaussian weights): 37 heuristics

Heuristic	FE	FS	BA	EBA	WD	MD	BD	AR
BUR02	100.0	100.0	100.0	100.0	0.15	0.08	0.00	1.0
ALK98	0.0	0.0	0.0	0.0	3.66	3.60	3.52	2.0
FES02V	0.0	0.0	0.0	0.0	8.68	8.17	7.72	3.3
FES02VP	0.0	0.0	0.0	0.0	8.68	8.18	7.75	3.3
PAL06	0.0	0.0	0.0	0.0	11.20	10.13	9.24	6.2
HAS00TS	0.0	0.0	0.0	0.0	11.48	11.13	10.80	6.8
DUA05	0.0	0.0	0.0	0.0	12.17	11.89	11.62	8.0
MER02LS1	0.0	0.0	0.0	0.0	12.23	12.16	12.06	8.7
GLO98	0.0	0.0	0.0	0.0	13.01	12.84	12.68	10.1
PAL04T1	0.0	0.0	0.0	0.0	14.07	13.91	13.75	11.8
PAL04MT	0.0	0.0	0.0	0.0	14.15	13.96	13.78	12.7
BEA98TS	0.0	0.0	0.0	0.0	14.19	14.10	13.99	11.4
PAL04T5	0.0	0.0	0.0	0.0	14.60	14.42	14.24	12.6
PAL04T4	0.0	0.0	0.0	0.0	14.60	14.42	14.24	12.6
PAL04T2	0.0	0.0	0.0	0.0	14.61	14.43	14.25	14.3
KAT01	0.0	0.0	0.0	0.0	15.29	15.20	15.09	16.9
BEA98SA	0.0	0.0	0.0	0.0	15.71	15.49	15.29	17.9
LOD99	0.0	0.0	0.0	0.0	20.66	20.18	19.73	18.9
MER02GR	0.0	0.0	0.0	0.0	31.45	28.65	26.78	8.6
MER04	0.0	0.0	0.0	0.0	95.30	87.77	76.47	20.2
MER99CR	0.0	0.0	0.0	0.0	97.75	97.49	97.18	19.9
LAG09CE	0.0	0.0	0.0	0.0	98.57	98.44	98.31	21.3
MER99MU	0.0	0.0	0.0	0.0	98.77	98.53	98.34	21.5
FES02G	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
FES02GP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
FES02GV	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
FES02GVP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
LAG09HCE	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
GLO10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
HAS00GA	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
KAT00	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
LU10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
MER99LS	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
MER02GRK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
MER02LSK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
PAL04T3	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9
PAR08	0.0	0.0	0.0	0.0	100.00	100.00	100.00	22.9

Table 7 Big Torii (± 1 weights): 37 heuristics

Heuristic	FE	FS	BA	EBA	WD	MD	BD	AR
KAT01	100.0	100.0	100.0	100.0	0.15	0.08	0.00	1.0
BEA98SA	0.0	0.0	0.0	0.0	0.34	0.24	0.16	2.0
BUR02	0.0	0.0	0.0	0.0	0.56	0.45	0.35	3.1
ALK98	0.0	0.0	0.0	0.0	0.68	0.64	0.59	3.9
HAS00TS	0.0	0.0	0.0	0.0	7.79	7.57	7.37	5.2
PAL04T5	0.0	0.0	0.0	0.0	11.99	11.80	11.59	6.4
FES02VP	0.0	0.0	0.0	0.0	14.74	14.16	13.76	6.9
FES02V	0.0	0.0	0.0	0.0	14.67	14.18	13.75	6.9
PAL06	0.0	0.0	0.0	0.0	21.90	21.08	20.08	9.1
BEA98TS	0.0	0.0	0.0	0.0	23.16	23.02	22.85	10.2
PAL04T1	0.0	0.0	0.0	0.0	23.63	23.39	23.14	12.3
PAL04T4	0.0	0.0	0.0	0.0	23.67	23.40	23.15	11.9
PAL04T2	0.0	0.0	0.0	0.0	23.69	23.43	23.17	13.6
PAL04MT	0.0	0.0	0.0	0.0	23.69	23.43	23.16	13.2
MER02LS1	0.0	0.0	0.0	0.0	23.64	23.48	23.32	13.8
GLO98	0.0	0.0	0.0	0.0	23.99	23.70	23.42	14.3
LOD99	0.0	0.0	0.0	0.0	32.52	30.70	29.08	16.9
MER99CR	0.0	0.0	0.0	0.0	98.47	98.29	98.09	18.1
LAG09CE	0.0	0.0	0.0	0.0	98.69	98.56	98.41	19.0
MER99MU	0.0	0.0	0.0	0.0	98.98	98.75	98.54	19.8
DUA05	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
FES02G	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
FES02GP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
FES02GV	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
FES02GVP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
LAG09HCE	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
GLO10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
HAS00GA	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
KAT00	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
LU10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
MER99LS	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
MER02GR	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
MER02GRK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
MER02LSK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
MER04	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
PAL04T3	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0
PAR08	0.0	0.0	0.0	0.0	100.00	100.00	100.00	21.0

Table 8 Big Torii: NN-SSS Vs. 37 heuristics

Heuristic	FE	FS	BA	EBA	WD	MD	BD	AR
NN-SSS	95.0	95.0	100.0	100.0	0.27	0.14	0.00	1.1
BUR02	5.0	5.0	0.0	0.0	0.84	0.75	0.67	2.9
ALK98	0.0	0.0	0.0	0.0	2.66	2.60	2.54	3.9
KAT01	0.0	0.0	0.0	0.0	8.19	8.11	8.02	10.0
BEA98SA	0.0	0.0	0.0	0.0	8.49	8.33	8.19	10.9
HAS00TS	0.0	0.0	0.0	0.0	10.09	9.80	9.54	7.0
FES02VP	0.0	0.0	0.0	0.0	12.14	11.60	11.19	6.1
FES02V	0.0	0.0	0.0	0.0	12.10	11.60	11.17	6.1
PAL04T5	0.0	0.0	0.0	0.0	13.73	13.54	13.35	10.5
PAL06	0.0	0.0	0.0	0.0	16.95	16.01	15.07	8.7
MER02LS1	0.0	0.0	0.0	0.0	18.33	18.21	18.08	12.2
GLO98	0.0	0.0	0.0	0.0	18.88	18.66	18.44	13.2
BEA98TS	0.0	0.0	0.0	0.0	19.07	18.95	18.81	11.8
PAL04T1	0.0	0.0	0.0	0.0	19.24	19.04	18.83	13.0
PAL04MT	0.0	0.0	0.0	0.0	19.31	19.09	18.86	13.9
PAL04T4	0.0	0.0	0.0	0.0	19.52	19.30	19.08	13.3
PAL04T2	0.0	0.0	0.0	0.0	19.54	19.32	19.10	14.9
LOD99	0.0	0.0	0.0	0.0	26.94	25.80	24.77	18.9
DUA05	0.0	0.0	0.0	0.0	56.21	56.07	55.94	15.5
MER02GR	0.0	0.0	0.0	0.0	65.81	64.42	63.48	15.8
MER04	0.0	0.0	0.0	0.0	97.65	93.90	88.26	21.6
MER99CR	0.0	0.0	0.0	0.0	98.12	97.90	97.64	20.0
LAG09CE	0.0	0.0	0.0	0.0	98.64	98.51	98.37	21.2
MER99MU	0.0	0.0	0.0	0.0	98.88	98.65	98.44	21.7
FES02G	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
FES02GP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
FES02GV	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
FES02GVP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
LAG09HCE	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
GLO10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
HAS00GA	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
KAT00	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
LU10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
MER99LS	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
MER02GRK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
MER02LSK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
PAL04T3	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0
PAR08	0.0	0.0	0.0	0.0	100.00	100.00	100.00	23.0

Table 9 Big Torii: P-SSS and NN-SSS Vs. 37 heuristics

Heuristic	FE	FS	BA	EBA	WD	MD	BD	AR
P-SSS	100.0	100.0	100.0	100.0	0.00	0.00	0.00	1.0
NN-SSS	0.0	0.0	0.0	0.0	2.15	2.02	1.88	2.1
BUR02	0.0	0.0	0.0	0.0	2.71	2.62	2.54	3.9
ALK98	0.0	0.0	0.0	0.0	4.49	4.44	4.38	4.9
KAT01	0.0	0.0	0.0	0.0	9.91	9.83	9.74	11.0
BEA98SA	0.0	0.0	0.0	0.0	10.20	10.05	9.91	11.9
HAS00TS	0.0	0.0	0.0	0.0	11.78	11.50	11.24	8.0
FES02VP	0.0	0.0	0.0	0.0	13.80	13.27	12.86	7.1
FES02V	0.0	0.0	0.0	0.0	13.76	13.27	12.84	7.1
PAL04T5	0.0	0.0	0.0	0.0	15.35	15.16	14.98	11.5
PAL06	0.0	0.0	0.0	0.0	18.52	17.60	16.68	9.7
MER02LS1	0.0	0.0	0.0	0.0	19.87	19.76	19.63	13.2
GLO98	0.0	0.0	0.0	0.0	20.42	20.20	19.98	14.2
BEA98TS	0.0	0.0	0.0	0.0	20.60	20.48	20.35	12.8
PAL04T1	0.0	0.0	0.0	0.0	20.77	20.57	20.37	14.0
PAL04MT	0.0	0.0	0.0	0.0	20.83	20.62	20.39	14.9
PAL04T4	0.0	0.0	0.0	0.0	21.04	20.83	20.61	14.3
PAL04T2	0.0	0.0	0.0	0.0	21.06	20.85	20.63	15.9
LOD99	0.0	0.0	0.0	0.0	28.32	27.20	26.19	19.9
DUA05	0.0	0.0	0.0	0.0	57.10	56.96	56.83	16.5
MER02GR	0.0	0.0	0.0	0.0	66.50	65.14	64.22	16.8
MER04	0.0	0.0	0.0	0.0	97.70	94.02	88.50	22.6
MER99CR	0.0	0.0	0.0	0.0	98.15	97.94	97.69	21.0
LAG09CE	0.0	0.0	0.0	0.0	98.66	98.54	98.40	22.2
MER99MU	0.0	0.0	0.0	0.0	98.90	98.67	98.47	22.7
FES02G	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
FES02GP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
FES02GV	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
FES02GVP	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
LAG09HCE	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
GLO10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
HAS00GA	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
KAT00	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
LU10	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
MER99LS	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
MER02GRK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
MER02LSK	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
PAL04T3	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0
PAR08	0.0	0.0	0.0	0.0	100.00	100.00	100.00	24.0