Constraints (pairs) - Optimal

#	$|\Gamma|$	% Obs	$|\Omega|$	$|\Gamma^*|$	$\delta_{HC}(P,S)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HCU}(P,S)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HC}(L,S)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HCU}(L,S)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HC}(L,P)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HCU}(L,P)$ AGR	ACC	$|\Gamma^h|$
BLOCKS	20.3	10	1.25	8.0	0.44	86.1	7.53	0.44	86.1	7.56	**0.45**	88.9	8.03	**0.45**	88.9	8.03	0.41	83.3	6.83	0.41	83.3	6.83
		30	3.08	3.97	0.47	80.6	2.53	0.42	86.1	4.97	0.43	77.8	2.53	0.4	80.6	4.61	0.47	83.3	2.94	**0.48**	86.1	4.28
		50	4.42	2.5	**0.59**	88.9	3.03	0.52	88.9	3.83	0.55	88.9	3.28	0.49	88.9	4.92	0.58	80.6	2.72	0.57	83.3	3.58
		70	6.67	1.94	**0.85**	97.2	1.83	0.76	97.2	2.42	0.75	97.2	2.08	0.66	97.2	2.67	0.81	91.7	2.06	0.79	91.7	2.14
		100	8.83	1.83	**0.92**	100.0	1.67	**0.92**	100.0	1.67	0.82	100.0	1.92	0.82	100.0	1.92	0.88	91.7	1.92	0.88	91.7	1.92
IPC-GRID	7.5	10	1.63	2.71	0.68	72.9	2.44	0.67	75.0	2.73	0.87	93.8	2.67	0.88	95.8	2.69	**0.92**	100.0	3.1	**0.92**	100.0	3.1
		30	4.0	1.21	0.78	93.8	1.44	0.81	95.8	1.94	0.93	95.8	1.15	0.94	97.9	1.17	**0.97**	97.9	1.23	0.95	97.9	1.4
		50	6.19	1.13	0.9	93.8	1.06	0.86	97.9	1.6	0.96	97.9	1.08	0.96	97.9	1.08	**0.97**	97.9	1.1	0.96	97.9	1.13
		70	8.69	1.04	0.95	97.9	1.13	0.92	100.0	1.35	**0.97**	97.9	1.06	**0.97**	97.9	1.06	**0.97**	97.9	1.06	**0.97**	97.9	1.06
		100	11.88	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0
LOGISTICS	10.0	10	2.0	2.83	0.73	97.2	3.75	0.73	97.2	3.75	**0.9**	100.0	3.56	**0.9**	100.0	3.56	0.86	100.0	3.67	0.86	100.0	3.67
		30	5.75	1.19	0.79	100.0	1.89	0.75	100.0	2.03	**0.92**	100.0	1.44	**0.92**	100.0	1.44	0.88	100.0	1.56	0.88	100.0	1.56
		50	9.42	1.06	0.92	100.0	1.28	0.89	100.0	1.33	**0.96**	100.0	1.17	**0.96**	100.0	1.17	0.91	100.0	1.28	0.91	100.0	1.28
		70	13.25	1.03	0.99	100.0	1.06	0.99	100.0	1.06	**1.0**	100.0	1.03	**1.0**	100.0	1.03	0.96	100.0	1.11	0.96	100.0	1.11
		100	18.17	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0
MICONIC	6.0	10	2.0	2.53	0.73	100.0	3.78	0.73	100.0	3.78	**0.89**	100.0	2.97	**0.89**	100.0	2.97	0.8	100.0	3.39	0.8	100.0	3.39
		30	5.42	1.22	0.63	100.0	2.25	0.42	100.0	3.64	**0.95**	100.0	1.36	**0.95**	100.0	1.36	0.77	100.0	1.78	0.77	100.0	1.78
		50	8.42	1.06	0.81	100.0	1.5	0.54	100.0	2.97	**0.97**	100.0	1.11	**0.97**	100.0	1.11	0.9	100.0	1.28	0.9	100.0	1.28
		70	11.92	1.0	0.91	100.0	1.19	0.76	100.0	1.56	**0.98**	100.0	1.06	**0.98**	100.0	1.06	0.97	100.0	1.08	0.97	100.0	1.08
		100	16.33	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0
ROVERS	6.0	10	1.67	2.28	0.63	94.4	3.86	0.59	94.4	4.28	**0.83**	97.2	2.75	**0.83**	97.2	2.75	0.78	91.7	2.64	0.78	91.7	2.64
		30	3.67	1.31	0.8	100.0	1.94	0.44	100.0	3.86	**0.94**	100.0	1.44	**0.94**	100.0	1.44	0.91	100.0	1.53	0.91	100.0	1.53
		50	5.75	1.19	0.93	100.0	1.36	0.64	100.0	2.47	0.92	88.9	1.08	0.92	88.9	1.08	**0.94**	97.2	1.19	**0.94**	97.2	1.19
		70	8.17	1.0	**1.0**	100.0	1.0	0.91	100.0	1.19	0.99	100.0	1.03	0.99	100.0	1.03	0.99	100.0	1.03	0.99	100.0	1.03
		100	10.83	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0
SATELLITE	6.0	10	1.42	3.53	0.83	88.9	3.78	0.82	88.9	3.92	0.85	94.4	3.81	0.85	94.4	3.81	**0.88**	97.2	3.89	**0.88**	97.2	3.89
		30	3.42	2.39	0.82	94.4	2.39	0.61	97.2	3.64	**0.86**	91.7	2.44	**0.86**	91.7	2.44	0.81	97.2	2.97	0.81	97.2	2.97
		50	5.75	1.58	0.83	94.4	1.58	0.6	97.2	2.81	**0.93**	97.2	1.53	0.91	97.2	1.58	0.92	100.0	1.78	0.92	100.0	1.78
		70	8.08	1.31	0.86	100.0	1.36	0.76	100.0	1.72	0.94	100.0	1.28	0.94	100.0	1.28	**0.97**	100.0	1.39	**0.97**	100.0	1.39
		100	10.75	1.25	0.92	100.0	1.08	0.92	100.0	1.08	0.96	100.0	1.17	0.96	100.0	1.17	**1.0**	100.0	1.25	**1.0**	100.0	1.25
SOKOBAN	8.7	10	2.33	2.11	0.31	33.3	1.33	0.3	38.9	1.64	**0.39**	52.8	2.08	0.38	61.1	2.94	0.34	75.0	4.97	0.34	75.0	4.97
		30	6.5	1.25	0.59	66.7	1.31	0.59	97.2	2.83	**0.75**	80.6	1.25	0.64	91.7	2.06	0.38	66.7	2.22	0.35	69.4	2.92
		50	10.33	1.22	0.82	88.9	1.25	0.75	100.0	2.0	**0.92**	100.0	1.19	0.83	100.0	1.39	0.49	69.4	1.58	0.48	80.6	2.36
		70	14.67	1.03	0.93	100.0	1.14	0.9	100.0	1.31	**0.99**	100.0	1.0	0.94	100.0	1.08	0.62	80.6	1.58	0.6	86.1	2.17
		100	20.17	1.0	0.96	100.0	1.08	0.96	100.0	1.08	**1.0**	100.0	1.0	**1.0**	100.0	1.0	0.81	91.7	1.33	0.81	91.7	1.33
Avg					0.81	93.41	1.94	0.74	95.38	2.46	**0.87**	95.46	1.84	0.86	96.21	2.03	0.82	94.03	2.04	0.82	94.74	2.17

Table 1: Results for each pair of contraint sets, for optimal observations. L for Landmarks, P for Post-hoc, and S for State equation.

Constraints (pairs) - Suboptimal

#	$|\Gamma|$	% Obs	$|\Omega|$	$|\Gamma^*|$	$\delta_{HC}(P,S)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HCU}(P,S)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HC}(L,S)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HCU}(L,S)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HC}(L,P)$ AGR	ACC	$|\Gamma^h|$	$\delta_{HCU}(L,P)$ AGR	ACC	$|\Gamma^h|$
BLOCKS	20.3	10	1.42	7.61	0.41	86.1	6.83	0.42	88.9	7.39	**0.44**	94.4	8.31	**0.44**	94.4	8.44	0.39	94.4	6.92	0.39	94.4	6.92
		30	3.83	3.58	0.49	77.8	3.14	0.35	86.1	6.94	0.5	83.3	3.75	0.34	86.1	7.17	0.44	80.6	3.97	0.41	86.1	5.89
		50	5.92	3.19	0.55	86.1	3.08	0.42	94.4	5.61	0.5	86.1	3.25	0.42	94.4	5.92	**0.57**	80.6	2.72	0.55	86.1	3.89
		70	8.5	2.53	**0.71**	91.7	2.06	0.56	94.4	3.06	0.64	97.2	2.36	0.55	100.0	3.19	0.69	88.9	2.31	0.68	88.9	2.36
		100	11.83	2.25	**0.84**	100.0	1.67	**0.84**	100.0	1.67	0.74	100.0	1.92	0.74	100.0	1.92	0.79	91.7	1.92	0.79	91.7	1.92
IPC-GRID	7.5	10	2.06	1.58	0.63	81.3	1.92	0.59	91.7	3.19	0.76	89.6	1.79	0.74	95.8	2.38	**0.86**	100.0	2.0	0.8	100.0	2.56
		30	5.56	1.4	0.71	85.4	1.31	0.65	100.0	3.46	0.82	93.8	1.13	0.77	97.9	1.6	**0.88**	100.0	1.21	0.77	100.0	2.44
		50	8.88	1.35	0.87	95.8	1.04	0.72	97.9	2.06	0.84	93.8	1.13	0.84	100.0	1.56	**0.89**	97.9	1.13	0.82	100.0	1.42
		70	12.56	1.31	0.89	97.9	1.02	0.79	97.9	1.48	0.89	100.0	1.1	0.85	100.0	1.23	**0.91**	100.0	1.06	0.88	100.0	1.13
		100	17.25	1.5	**0.94**	100.0	1.0	**0.94**	100.0	1.0	**0.94**	100.0	1.0	**0.94**	100.0	1.0	**0.94**	100.0	1.0	**0.94**	100.0	1.0
LOGISTICS	10.0	10	2.67	2.0	0.82	100.0	2.81	0.77	100.0	3.19	0.83	100.0	2.81	0.79	100.0	3.08	**0.84**	100.0	2.67	0.83	100.0	2.78
		30	7.5	1.14	0.83	100.0	1.53	0.7	100.0	2.17	**0.9**	100.0	1.36	0.72	100.0	2.61	0.88	100.0	1.42	0.79	100.0	1.67
		50	11.92	1.06	0.87	100.0	1.33	0.79	100.0	1.81	**0.93**	100.0	1.22	0.81	100.0	1.69	0.91	100.0	1.25	0.87	100.0	1.42
		70	16.67	1.03	0.96	100.0	1.11	0.88	100.0	1.28	**0.99**	100.0	1.06	0.91	100.0	1.22	**0.99**	100.0	1.06	0.94	100.0	1.14
		100	23.17	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0
MICONIC	6.0	10	3.0	1.83	0.54	100.0	3.94	0.49	100.0	4.56	**0.76**	100.0	2.67	0.74	100.0	3.0	0.68	100.0	3.14	0.68	100.0	3.19
		30	7.67	1.25	0.6	100.0	2.42	0.29	100.0	5.11	**0.89**	100.0	1.47	0.65	100.0	2.5	0.77	100.0	1.78	0.64	100.0	2.58
		50	12.25	1.03	0.88	100.0	1.31	0.33	100.0	4.11	**0.98**	100.0	1.08	0.82	100.0	1.5	0.97	100.0	1.11	0.8	100.0	1.53
		70	17.33	1.0	0.94	100.0	1.11	0.54	100.0	2.72	**0.99**	100.0	1.06	0.9	100.0	1.31	**0.99**	100.0	1.03	0.94	100.0	1.11
		100	24.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0
ROVERS	6.0	10	1.83	2.39	0.65	97.2	4.11	0.6	97.2	4.5	**0.83**	88.9	2.89	**0.83**	88.9	2.89	0.79	94.4	3.14	0.79	94.4	3.14
		30	4.5	1.39	0.76	100.0	2.19	0.43	100.0	4.33	**0.88**	88.9	1.39	0.81	88.9	1.75	0.86	100.0	1.61	0.79	100.0	2.11
		50	7.17	1.11	0.94	100.0	1.28	0.45	100.0	3.47	0.93	94.4	1.14	0.86	94.4	1.33	**0.99**	100.0	1.08	0.94	100.0	1.17
		70	10.0	1.06	0.93	100.0	1.25	0.68	100.0	2.14	0.94	94.4	1.08	0.92	97.2	1.22	**0.98**	100.0	1.11	0.94	100.0	1.25
		100	13.67	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0
SATELLITE	6.0	10	2.0	3.25	0.77	94.4	3.89	0.74	100.0	4.42	**0.9**	97.2	3.44	**0.9**	97.2	3.44	0.8	97.2	4.03	0.8	97.2	4.03
		30	4.33	1.78	0.68	86.1	2.33	0.53	88.9	3.67	**0.8**	94.4	2.22	0.78	94.4	2.33	0.74	97.2	2.69	0.79	97.2	2.78
		50	6.75	1.36	0.86	100.0	1.69	0.41	100.0	4.11	**0.92**	94.4	1.42	0.85	94.4	1.72	0.83	100.0	1.83	0.79	100.0	2.06
		70	9.42	1.33	0.85	97.2	1.42	0.67	97.2	2.22	**0.94**	100.0	1.36	**0.94**	100.0	1.36	0.92	100.0	1.56	0.92	100.0	1.56
		100	12.75	1.25	0.92	100.0	1.08	0.92	100.0	1.08	0.96	100.0	1.17	0.96	100.0	1.17	**1.0**	100.0	1.25	**1.0**	100.0	1.25
SOKOBAN	8.7	10	3.33	1.83	0.36	38.9	1.44	0.35	52.8	2.64	**0.52**	61.1	1.78	0.44	72.2	3.17	0.25	58.3	3.67	0.26	63.9	3.92
		30	8.67	1.28	0.68	72.2	1.11	0.53	97.2	3.28	**0.77**	83.3	1.08	0.62	97.2	2.67	0.37	63.9	2.44	0.38	86.1	4.56
		50	13.75	1.33	**0.79**	80.6	1.17	0.58	100.0	3.25	**0.79**	91.7	1.17	0.66	100.0	2.58	0.41	61.1	1.78	0.36	91.7	4.44
		70	19.33	1.36	**0.85**	100.0	1.19	0.82	100.0	1.69	**0.85**	100.0	1.03	**0.85**	100.0	1.39	0.51	83.3	1.92	0.46	94.4	3.0
		100	27.0	1.33	**0.88**	100.0	1.08	**0.88**	100.0	1.08	0.83	100.0	1.0	0.83	100.0	1.0	0.72	91.7	1.33	0.72	91.7	1.33
Avg					0.78	93.39	1.91	0.65	96.71	3.02	**0.83**	94.98	1.82	0.78	96.96	2.35	0.79	93.75	2.0	0.76	96.11	2.41

Table 2: Results for each pair of contraint sets, for suboptimal observations. L for Landmarks, P for Post-hoc, and S for State equation.