

Constraints (pairs) - Optimal, Noisy

#	Γ	% Obs	Ω	Γ^*	$\delta_{HC}(P, S)$			$\delta_{HCU}(P, S)$			$\delta_{HC}(L, S)$			$\delta_{HCU}(L, S)$			$\delta_{HC}(L, P)$			$\delta_{HCU}(L, P)$		
					AGR	ACC	Γ^h	AGR	ACC	Γ^h	AGR	ACC	Γ^h	AGR	ACC	Γ^h	AGR	ACC	Γ^h	AGR	ACC	Γ^h
BLOCKS	20.3	10	1.25	8.0	0.43	86.1	8.08	0.43	86.1	8.11	0.44	88.9	8.58	0.44	88.9	8.58	0.4	83.3	7.28	0.4	83.3	7.28
		30	3.08	3.97	0.42	75.0	3.61	0.41	88.9	7.67	0.39	75.0	3.64	0.39	86.1	7.67	0.38	69.4	3.11	0.39	75.0	4.81
		50	4.42	2.5	0.49	72.2	3.11	0.35	91.7	8.67	0.43	77.8	3.75	0.34	94.4	9.5	0.44	69.4	3.39	0.41	80.6	5.67
		70	6.67	1.94	0.76	91.7	2.17	0.51	94.4	5.36	0.68	88.9	2.31	0.48	94.4	5.36	0.69	86.1	2.53	0.6	91.7	4.47
		100	8.83	1.83	0.69	83.3	1.75	0.65	100.0	4.25	0.64	83.3	1.92	0.65	100.0	4.25	0.86	91.7	2.42	0.86	100.0	2.67
IPC-GRID	7.5	10	1.63	2.71	0.63	75.0	2.65	0.64	81.3	3.06	0.82	91.7	2.75	0.8	91.7	2.94	0.84	95.8	3.17	0.84	95.8	3.17
		30	4.0	1.21	0.7	85.4	1.38	0.66	91.7	2.5	0.84	91.7	1.25	0.83	93.8	1.35	0.91	100.0	1.42	0.86	100.0	1.77
		50	6.19	1.13	0.81	87.5	1.25	0.74	91.7	2.0	0.88	97.9	1.4	0.88	97.9	1.44	0.88	95.8	1.35	0.86	97.9	1.54
		70	8.69	1.04	0.94	95.8	1.08	0.81	100.0	1.69	0.94	97.9	1.17	0.92	97.9	1.21	0.96	97.9	1.08	0.94	100.0	1.27
		100	11.88	1.0	1.0	100.0	1.0	0.95	100.0	1.38	0.97	100.0	1.06	0.97	100.0	1.06	0.97	100.0	1.06	0.97	100.0	1.06
LOGISTICS	10.0	10	2.0	2.83	0.61	86.1	3.33	0.61	86.1	3.33	0.75	97.2	4.39	0.74	97.2	4.5	0.71	94.4	4.39	0.71	94.4	4.39
		30	5.75	1.19	0.6	91.7	2.33	0.5	100.0	4.08	0.81	100.0	1.89	0.65	100.0	2.81	0.74	97.2	1.97	0.72	97.2	2.28
		50	9.42	1.06	0.78	94.4	1.56	0.67	100.0	2.39	0.89	97.2	1.31	0.83	100.0	1.64	0.78	91.7	1.42	0.74	91.7	1.56
		70	13.25	1.03	0.94	100.0	1.14	0.86	100.0	1.5	0.97	100.0	1.08	0.89	100.0	1.33	0.94	100.0	1.14	0.9	100.0	1.36
		100	18.17	1.0	0.96	100.0	1.08	0.96	100.0	1.08	1.0	100.0	1.0	0.96	100.0	1.08	0.96	100.0	1.08	0.96	100.0	1.08
MICONC	6.0	10	2.0	2.53	0.69	100.0	4.08	0.69	100.0	4.08	0.77	91.7	2.81	0.77	91.7	2.81	0.74	97.2	3.56	0.74	97.2	3.56
		30	5.42	1.22	0.51	100.0	2.83	0.31	100.0	4.69	0.74	88.9	1.58	0.67	100.0	2.58	0.62	94.4	2.08	0.6	94.4	2.36
		50	8.42	1.06	0.69	100.0	1.81	0.31	100.0	4.56	0.88	94.4	1.19	0.59	100.0	2.39	0.79	97.2	1.47	0.61	97.2	2.31
		70	11.92	1.0	0.8	100.0	1.47	0.35	100.0	3.94	0.88	94.4	1.14	0.61	97.2	2.11	0.85	97.2	1.28	0.77	97.2	1.5
		100	16.33	1.0	1.0	100.0	1.0	0.43	100.0	3.42	0.88	100.0	1.25	0.75	100.0	2.08	0.88	100.0	1.25	0.86	100.0	1.33
ROVERS	6.0	10	1.67	2.28	0.51	86.1	4.08	0.5	91.7	4.5	0.63	83.3	2.97	0.63	83.3	2.97	0.57	75.0	2.92	0.57	75.0	2.92
		30	3.67	1.31	0.6	94.4	2.58	0.33	97.2	4.64	0.71	80.6	1.69	0.7	83.3	1.81	0.7	88.9	1.92	0.7	91.7	2.22
		50	5.75	1.19	0.77	94.4	1.69	0.45	97.2	3.61	0.73	77.8	1.28	0.72	86.1	1.67	0.83	91.7	1.42	0.83	94.4	1.67
		70	8.17	1.0	0.82	94.4	1.36	0.54	100.0	3.08	0.8	86.1	1.14	0.77	97.2	1.5	0.81	94.4	1.31	0.78	94.4	1.47
		100	10.83	1.0	0.94	100.0	1.25	0.75	100.0	1.83	0.96	100.0	1.08	0.9	100.0	1.25	1.0	100.0	1.0	1.0	100.0	1.0
SATELLITE	6.0	10	1.42	3.53	-	-	-	0.76	83.3	3.89	-	-	-	0.81	94.4	3.89	-	-	-	0.8	91.7	3.81
		30	3.42	2.39	-	-	-	0.55	94.4	4.25	-	-	-	0.76	83.3	2.72	-	-	-	0.72	91.7	3.14
		50	5.75	1.58	-	-	-	0.43	88.9	3.89	-	-	-	0.63	91.7	3.03	-	-	-	0.71	97.2	2.75
		70	8.08	1.31	-	-	-	0.46	100.0	3.72	-	-	-	0.59	91.7	2.61	-	-	-	0.66	94.4	2.44
		100	10.75	1.25	-	-	-	0.52	91.7	2.33	-	-	-	0.69	91.7	1.83	-	-	-	0.79	91.7	1.67
SOKOBAN	8.7	10	2.33	2.11	0.29	38.9	2.08	0.28	50.0	3.47	0.35	52.8	2.78	0.33	69.4	4.03	0.26	55.6	4.08	0.26	55.6	4.08
		30	6.5	1.25	0.46	61.1	1.64	0.47	94.4	3.92	0.61	75.0	1.53	0.47	91.7	3.25	0.33	58.3	2.33	0.31	72.2	3.36
		50	10.33	1.22	0.51	72.2	2.69	0.35	94.4	5.67	0.61	88.9	2.72	0.42	94.4	4.97	0.36	58.3	1.78	0.28	77.8	3.58
		70	14.67	1.03	0.56	86.1	3.47	0.46	100.0	4.89	0.65	94.4	3.44	0.5	100.0	4.56	0.42	58.3	1.47	0.4	80.6	3.08
		100	20.17	1.0	0.64	83.3	2.58	0.49	100.0	4.17	0.77	91.7	2.5	0.64	100.0	3.75	0.63	75.0	1.25	0.58	83.3	1.83
Avg					0.59	75.3	2.0	0.55	94.15	3.87	0.64	76.79	1.9	0.68	93.99	3.16	0.61	74.7	1.88	0.69	91.01	2.7

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

Constraints (pairs) - Suboptimal, Noisy

#	Γ	% Obs	Ω	Γ^*	$\delta_{HC}(P, S)$			$\delta_{HCU}(P, S)$			$\delta_{HC}(L, S)$			$\delta_{HCU}(L, S)$			$\delta_{HC}(L, P)$			$\delta_{HCU}(L, P)$				
					AGR	ACC	Γ^h	AGR	ACC	Γ^h	AGR	ACC	Γ^h	AGR	ACC	Γ^h	AGR	ACC	Γ^h	AGR	ACC	Γ^h	AGR	ACC
BLOCKS	20.3	10	1.42	7.61	0.4	77.8	8.08	0.4	80.6	8.86	0.42	83.3	9.11	0.42	83.3	9.28	0.34	83.3	7.81	0.34	83.3	7.81		
		30	3.83	3.58	0.38	63.9	3.17	0.34	91.7	9.28	0.4	75.0	4.31	0.31	94.4	9.64	0.36	69.4	3.94	0.35	77.8	6.44		
		50	5.92	3.19	0.49	80.6	3.22	0.3	100.0	9.36	0.47	86.1	4.17	0.27	94.4	9.69	0.52	77.8	2.69	0.44	86.1	6.06		
		70	8.5	2.53	0.51	69.4	2.11	0.34	100.0	9.14	0.48	72.2	2.33	0.32	100.0	9.5	0.54	77.8	2.39	0.5	94.4	4.39		
		100	11.83	2.25	0.66	91.7	2.08	0.58	100.0	3.67	0.58	75.0	1.92	0.58	100.0	3.67	0.65	83.3	1.92	0.66	100.0	3.67		
IPC-GRID	7.5	10	2.06	1.58	0.52	70.8	2.1	0.48	79.2	3.23	0.62	85.4	2.27	0.59	89.6	3.0	0.69	95.8	2.75	0.65	95.8	3.25		
		30	5.56	1.4	0.69	81.3	1.29	0.65	100.0	3.15	0.81	100.0	1.4	0.73	100.0	2.04	0.86	100.0	1.33	0.77	100.0	2.31		
		50	8.88	1.35	0.76	91.7	1.27	0.63	100.0	2.9	0.79	91.7	1.17	0.75	100.0	1.73	0.85	97.9	1.25	0.75	100.0	1.83		
		70	12.56	1.31	0.85	95.8	1.08	0.6	100.0	2.6	0.87	100.0	1.1	0.75	100.0	1.44	0.86	97.9	1.13	0.81	100.0	1.44		
		100	17.25	1.5	0.88	93.8	1.0	0.7	100.0	1.63	0.88	100.0	1.13	0.74	100.0	1.5	0.91	100.0	1.06	0.82	100.0	1.25		
LOGISTICS	10.0	10	2.67	2.0	0.69	91.7	3.06	0.67	94.4	3.33	0.75	100.0	3.58	0.7	100.0	4.14	0.73	97.2	3.39	0.73	97.2	3.39		
		30	7.5	1.14	0.72	91.7	1.69	0.61	100.0	3.0	0.81	97.2	1.5	0.64	100.0	3.39	0.8	100.0	1.64	0.73	100.0	2.17		
		50	11.92	1.06	0.8	97.2	1.44	0.64	100.0	2.64	0.83	100.0	1.47	0.63	100.0	2.83	0.84	100.0	1.42	0.75	100.0	1.75		
		70	16.67	1.03	0.93	100.0	1.19	0.79	100.0	1.67	0.94	100.0	1.17	0.81	100.0	1.58	0.97	100.0	1.11	0.88	100.0	1.33		
		100	23.17	1.0	0.96	100.0	1.08	0.88	100.0	1.25	1.0	100.0	1.0	0.9	100.0	1.25	1.0	100.0	1.0	1.0	100.0	1.0		
MICONC	6.0	10	3.0	1.83	0.48	100.0	4.36	0.42	100.0	5.11	0.69	91.7	2.83	0.65	94.4	3.25	0.61	94.4	3.25	0.61	94.4	3.33		
		30	7.67	1.25	0.5	97.2	2.86	0.25	100.0	5.56	0.69	88.9	1.58	0.43	100.0	3.78	0.61	83.3	1.67	0.44	97.2	3.36		
		50	12.25	1.03	0.78	100.0	1.61	0.22	100.0	5.31	0.79	86.1	1.17	0.5	100.0	3.14	0.74	86.1	1.31	0.53	94.4	2.5		
		70	17.33	1.0	0.75	97.2	1.53	0.22	100.0	5.14	0.81	88.9	1.19	0.37	100.0	3.5	0.81	88.9	1.25	0.63	94.4	2.08		
		100	24.00	1.0	0.96	100.0	1.08	0.45	100.0	3.67	0.92	91.7	1.0	0.57	100.0	2.83	0.92	91.7	1.0	0.94	100.0	1.17		
ROVERS	6.0	10	1.83	2.39	0.57	94.4	4.44	0.53	94.4	4.69	0.73	80.6	3.0	0.74	83.3	3.03	0.72	94.4	3.33	0.72	94.4	3.33		
		30	4.5	1.39	0.65	88.9	2.19	0.37	100.0	4.83	0.82	83.3	1.39	0.66	86.1	2.28	0.75	88.9	1.64	0.66	91.7	2.33		
		50	7.17	1.11	0.67	88.9	1.81	0.32	100.0	4.58	0.72	77.8	1.28	0.61	86.1	2.06	0.78	91.7	1.42	0.69	91.7	2.0		
		70	10.00	1.06	0.82	100.0	1.58	0.4	100.0	3.97	0.81	86.1	1.22	0.64	97.2	2.33	0.9	100.0	1.36	0.75	100.0	1.97		
		100	13.67	1.0	1.0	100.0	1.0	0.72	100.0	2.17	0.88	91.7	1.08	0.83	100.0	1.58	1.0	100.0	1.0	0.92	100.0	1.25		
SATELLITE	6.0	10	2.0	3.25	-	-	-	0.7	100.0	4.64	-	-	-	0.75	88.9	3.89	-	-	-	-	-	0.74	91.7	4.19
		30	4.33	1.78	-	-	-	0.39	91.7	4.69	-	-	-	0.6	91.7	3.36	-	-	-	-	0.54	91.7	3.78	
		50	6.75	1.36	-	-	-	0.35	100.0	4.75	-	-	-	0.56	94.4	3.33	-	-	-	-	0.64	100.0	2.78	
		70	9.42	1.33	-	-	-	0.4	97.2	4.08	-	-	-	0.55	100.0	3.53	-	-	-	-	0.68	97.2	2.61	
		100	12.75	1.25	-	-	-	0.39	100.0	3.67	-	-	-	0.73	100.0	2.5	-	-	-	-	0.81	100.0	1.83	
SOOBAN	8.7	10	3.33	1.83	0.36	41.7	1.69	0.35	61.1	3.33	0.41	52.8	1.92	0.35	69.4	3.67	0.24	50.0	3.39	0.25	56.5	3.64		
		30	8.67	1.28	0.54	69.4	2.14	0.35	97.2	5.58	0.64	80.6	2.14	0.4	97.2	5.19	0.32	61.1	2.22	0.29	77.8	6.44		
		50	13.75	1.33	0.56	63.9	1.89	0.37	86.1	4.72	0.54	75.0	2.08	0.38	88.9	4.69	0.37	62.8	1.67	0.36	88.9	4.44		
		70	19.33	1.36	0.46	86.1	4.0	0.26	94.4	6.5	0.5	88.9	4.0	0.27	94.4	6.0	0.43	63.9	1.64	0.38	83.3	3.86		
		100	27.0	1.33	0.47	83.3	4.67	0.3	91.7	6.17	0.47	91.7	4.67	0.33	91.7	5.67	0.71	75.0	1.08	0.62	20.0	2.5		
Avg																								