

Observation Filters - Optimal, Noisy

#	\mathcal{G}	% Obs	\mathcal{O}	\mathcal{G}^*	$\delta_{\text{HC}F0}$					$\delta_{\text{HC}UF0}$					$\delta_{\text{HC}F1}$					$\delta_{\text{HC}UF1}$					$\delta_{\text{HC}F2}$					$\delta_{\text{HC}UF2}$										
					Time	AR	FPR	FNR	Acc	$ S $	Time	AR	FPR	FNR	Acc	$ S $	Time	AR	FPR	FNR	Acc	$ S $	Time	AR	FPR	FNR	Acc	$ S $	Time	AR	FPR	FNR	Acc	$ S $						
BLOCKS (956)	20.3	10	1.25	8.0	19.742	0.43	0.27	0.3	86.1	8.08	20.124	0.43	0.27	0.3	86.1	8.11	5.498	0.4	0.55	0.04	100.0	17.67	4.445	0.4	0.55	0.04	100.0	17.67	4.436	0.39	0.61	0.0	100.0	20.33	3.696	0.39	0.61	0.0	100.0	20.33
		30	3.08	3.97	20.393	0.42	0.24	0.35	75.0	3.64	17.415	0.41	0.37	0.22	88.9	7.67	5.293	0.39	0.39	0.21	83.3	5.72	4.487	0.4	0.43	0.17	91.7	7.22	4.371	0.25	0.63	0.12	91.7	12.17	3.714	0.25	0.63	0.12	91.7	12.17
		50	4.42	2.5	20.519	0.48	0.29	0.23	72.2	3.14	17.166	0.35	0.53	0.11	91.7	8.69	4.506	0.5	0.35	0.15	80.6	3.67	4.467	0.46	0.43	0.1	91.7	6.42	3.72	0.35	0.56	0.09	88.9	6.53	3.718	0.34	0.59	0.07	91.7	7.36
		70	6.67	1.94	20.672	0.75	0.16	0.09	91.7	2.19	16.492	0.51	0.43	0.06	94.4	5.36	4.505	0.72	0.21	0.07	94.4	2.39	4.502	0.57	0.38	0.06	97.2	3.94	3.706	0.62	0.3	0.08	91.7	3.03	3.708	0.56	0.37	0.08	91.7	3.58
		100	8.83	1.83	20.709	0.69	0.15	0.16	83.3	1.75	15.404	0.65	0.31	0.04	100.0	4.25	4.481	0.74	0.11	0.16	83.3	1.67	4.446	0.73	0.14	0.13	91.7	2.5	3.711	0.58	0.26	0.16	83.3	2.25	3.708	0.66	0.26	0.08	91.7	2.75
IPC-GRID (1248)	7.5	10	1.63	2.71	8.021	0.82	0.09	0.09	91.7	2.75	8.501	0.8	0.11	0.09	91.7	2.94	5.736	0.62	0.35	0.03	95.8	5.15	4.239	0.62	0.35	0.03	95.8	5.15	3.477	0.38	0.61	0.01	97.9	7.27	2.804	0.38	0.61	0.01	97.9	7.27
		30	4.0	1.21	8.395	0.84	0.09	0.07	91.7	1.25	8.488	0.83	0.12	0.05	93.8	1.35	4.995	0.7	0.22	0.08	91.7	1.54	4.221	0.7	0.23	0.07	93.8	1.58	3.488	0.48	0.42	0.09	89.6	3.08	2.346	0.49	0.42	0.08	91.7	3.1
		50	6.19	1.13	8.384	0.88	0.09	0.03	97.9	1.4	8.524	0.88	0.1	0.02	97.9	1.44	4.626	0.85	0.12	0.03	97.9	1.46	4.255	0.86	0.12	0.02	97.9	1.48	3.491	0.7	0.27	0.03	97.9	2.06	2.257	0.7	0.27	0.03	97.9	2.06
		70	8.69	1.04	8.476	0.94	0.05	0.01	97.9	1.17	8.545	0.92	0.07	0.01	97.9	1.21	4.311	0.94	0.05	0.01	97.9	1.13	3.679	0.92	0.07	0.01	97.9	1.17	2.821	0.86	0.13	0.01	97.9	1.27	2.284	0.84	0.15	0.01	97.9	1.31
		100	11.88	1.0	8.575	0.97	0.03	0.0	100.0	1.06	8.581	0.97	0.03	0.0	100.0	1.06	4.366	0.97	0.03	0.0	100.0	1.06	3.525	0.97	0.03	0.0	100.0	1.06	2.834	0.94	0.06	0.0	100.0	1.13	2.34	0.94	0.06	0.0	100.0	1.13
LOGISTICS (956)	10.0	10	2.0	2.83	8.825	0.75	0.21	0.04	94.4	4.06	9.349	0.71	0.25	0.04	94.4	4.47	7.119	0.47	0.51	0.02	97.2	6.67	5.934	0.47	0.51	0.02	97.2	6.67	4.828	0.28	0.72	0.0	100.0	10.0	3.956	0.28	0.72	0.0	100.0	10.0
		30	5.75	1.19	9.166	0.8	0.2	0.01	97.2	1.78	9.363	0.67	0.33	0.0	100.0	2.67	7.165	0.75	0.24	0.01	97.2	1.89	5.966	0.71	0.29	0.0	100.0	2.42	4.774	0.58	0.41	0.01	97.2	2.64	3.976	0.57	0.43	0.0	100.0	2.86
		50	9.42	1.06	9.283	0.88	0.11	0.01	97.2	1.31	9.399	0.79	0.2	0.01	97.2	1.61	7.028	0.88	0.11	0.01	97.2	1.31	4.995	0.79	0.2	0.01	97.2	1.61	4.837	0.79	0.19	0.01	97.2	1.53	3.945	0.74	0.25	0.01	97.2	1.72
		70	13.25	1.03	9.347	0.96	0.04	0	100.0	1.11	9.369	0.89	0.11	0	100.0	1.39	6.901	0.96	0.04	0	100.0	1.11	4.856	0.9	0.1	0	100.0	1.36	4.719	0.94	0.06	0	100.0	1.17	3.939	0.88	0.12	0	100.0	1.42
		100	18.17	1.0	9.344	1.0	0.0	0	100.0	1.0	9.422	0.96	0.04	0.0	100.0	1.08	6.288	1.0	0.0	0	100.0	1.0	4.872	0.96	0.04	0.0	100.0	1.08	4.005	1.0	0.0	0	100.0	1.0	3.942	1.0	0.0	0	100.0	1.0
MICRONIC (956)	6.0	10	2.0	2.53	5.54	0.77	0.15	0.08	91.7	2.81	5.902	0.77	0.15	0.08	91.7	2.81	5.492	0.51	0.48	0.01	97.2	5.0	4.967	0.51	0.48	0.01	97.2	5.0	4.977	0.42	0.58	0.0	100.0	6.0	4.5	0.42	0.58	0.0	100.0	6.0
		30	5.42	1.22	5.773	0.74	0.19	0.07	88.9	1.58	5.942	0.67	0.33	0.0	100.0	2.58	5.19	0.66	0.3	0.04	94.4	2.03	4.995	0.64	0.32	0.04	94.4	2.14	4.604	0.4	0.58	0.02	97.2	3.33	4.475	0.4	0.59	0.02	97.2	3.42
		50	8.42	1.06	5.878	0.88	0.1	0.03	94.4	1.19	6.001	0.59	0.41	0.0	100.0	2.39	5.019	0.88	0.1	0.03	94.4	1.19	5.004	0.73	0.25	0.01	97.2	1.81	4.519	0.76	0.22	0.01	97.2	1.67	4.234	0.72	0.26	0.01	97.2	1.83
		70	11.92	1.0	5.959	0.88	0.09	0.03	94.4	1.14	6.001	0.61	0.37	0.01	97.2	2.11	5.015	0.9	0.09	0.01	97.2	1.17	5.029	0.81	0.19	0.0	100.0	1.5	4.552	0.88	0.1	0.01	97.2	1.19	4.018	0.87	0.13	0.0	100.0	1.33
		100	16.33	1.0	5.936	0.88	0.13	0.0	100.0	1.25	6.029	0.75	0.25	0.0	100.0	2.08	4.992	0.88	0.13	0.0	100.0	1.25	5.003	0.83	0.17	0.0	100.0	1.67	4.577	0.88	0.13	0.0	100.0	1.25	4.054	0.83	0.17	0.0	100.0	1.67
ROVERS (956)	6.0	10	1.67	2.28	5.992	0.63	0.24	0.13	83.3	2.97	6.378	0.63	0.24	0.13	83.3	2.97	5.421	0.47	0.52	0.01	100.0	5.14	5.401	0.47	0.52	0.01	100.0	5.14	4.851	0.38	0.62	0.0	100.0	6.0	4.396	0.38	0.62	0.0	100.0	6.0
		30	3.67	1.31	6.254	0.71	0.21	0.08	80.6	1.69	6.419	0.7	0.23	0.07	83.3	1.81	5.429	0.53	0.4	0.07	83.3	2.36	5.356	0.53	0.4	0.07	83.3	2.36	4.84	0.35	0.63	0.02	94.4	4.08	4.237	0.35	0.63	0.02	94.4	4.08
		50	5.75	1.19	6.322	0.73	0.14	0.13	77.8	1.28	6.479	0.72	0.2	0.08	86.1	1.67	5.392	0.71	0.18	0.11	80.6	1.39	5.413	0.7	0.2	0.1	83.3	1.56	4.88	0.54	0.4	0.06	91.7	2.31	3.816	0.55	0.41	0.04	94.4	2.42
		70	8.17	1.0	6.376	0.8	0.13	0.07	86.1	1.14	6.412	0.77	0.22	0.01	97.2	1.5	5.476	0.77	0.16	0.07	86.1	1.19	5.146	0.77	0.19	0.04	91.7	1.33	4.886	0.7	0.23	0.07	86.1	1.47	3.826	0.68	0.25	0.07	86.1	1.47
		100	10.83	1.0	6.375	0.96	0.04	0.0	100.0	1.08	6.428	0.9	0.1	0.0	100.0	1.25	5.43	0.96	0.04	0.0	100.0	1.08	4.84	0.9	0.1	0.0	100.0	1.25	4.822	0.92	0.08	0.0	100.0	1.17	3.818	0.88	0.13	0.0	100.0	1.25
SOKOBAN (956)	8.7	10	2.33	2.11	15.938	0.35	0.38	0.27	52.8	2.78	16.849	0.33	0.47	0.2	69.4	4.03	6.767	0.34	0.5	0.17	63.9	4.0	4.989	0.34	0.52	0.14	72.2	4.36	3.77	0.27	0.69	0.04	86.1	6.67	3.748	0.27	0.69	0.04	88.9	6.81
		30	6.5	1.25	16.338	0.61	0.23	0.16	75.0	1.53	16.453	0.47	0.48	0.05	91.7	3.25	6.593	0.61	0.24	0.15	75.0	1.47	4.596	0.51	0.41	0.08	88.9	2.89	3.692	0.56	0.3	0.14	75.0	1.69	3.692	0.52	0.35	0.12	77.8	2.17
		50	10.33	1.22	16.48	0.61	0.3	0.09	88.9	2.72	14.305	0.42	0.55	0.03	94.4	4.97	6.464	0.79	0.18	0.03	100.0	2.08	3.646	0.82	0.12	0.06	88.9	1.39	3.655	0.65	0.32	0.03	94.4	2.83	3.655	0.65	0.32	0.03	94.4	2.83
		70	14.67	1.03	16.502	0.65	0.31	0.04	94.4	3.44	13.571	0.5	0.5	0.0	100.0	4.56	5.637	0.78	0.19	0.03	97.2	2.33	3.643	0.59	0.41	0.0	100.0	3.39	3.641	0.83	0.14	0.04	94.4	1.92	3.623	0.69	0.31	0.0	100.0	2.78
		100	20.17	1.0	16.414	0.77	0.19	0.04	91.7	2.5	13.647	0.64	0.36	0.0	100.0	3.75	5.627	0.92	0.04	0.04	91.7	1.0	3.69	0.82	0.18	0.0	100.0	1.83	3.638	0.88	0.08	0.04	91.7	1.08	3.684	0.78	0.22	0.0	100.0	1.83
Average					11.064	0.75	0.16	0.09	89.21	2.16	10.433	0.68	0.27	0.05	94.28	3.17	5.559	0.72	0.23	0.05	92.59	2.87	4.688	0.67	0.29	0.04	95.35	3.38	4.17	0.63	0.34	0.04	94.44	3.89	3.67	0.6	0.37	0.03	96.0	4.13