Pipeline	Filtered	Precision	Recall	AUC$^E_{@5}$	AUC$^E_{@10}$	AUC$^L_{@5}$	AUC$^L_{@10}$	AUC$^E_{@5}$	AUC$^E_{@10}$	AUC$^E_{@20}$	AUC$^L_{@20}$	Filtered	Precision	Recall	AUC$^E_{@5}$	AUC$^E_{@10}$	AUC$^L_{@5}$	AUC$^L_{@10}$	AUC$^E_{@5}$	AUC$^E_{@10}$	AUC$^E_{@20}$	AUC$^L_{@20}$
Key.Net+$\frac{AdaLAM}{HardNet}$+NNR	0.00	92.11	**100.00**	30.77	44.16	57.49	44.14	43.37	60.54	73.97	59.29	0.00	34.81	**98.14**	6.70	15.38	26.42	16.16	11.57	23.73	37.47	24.25
+MAGSAC$_\uparrow$	55.99	92.11	74.01	30.77	44.16	57.49	44.14	42.54	62.10	75.98	61.11	71.16	60.23	49.42	6.70	15.38	26.42	16.16	11.57	23.73	37.47	24.25
+MAGSAC$_\downarrow$	61.72	92.86	64.87	32.40	45.51	58.53	45.48	43.87	61.95	75.98	60.60	75.27	60.14	42.19	7.38	15.49	26.19	16.35	11.89	23.89	37.01	24.26
+ACNe	44.12	88.21	89.85	9.20	22.14	41.99	24.44	40.11	59.09	75.01	58.07	57.62	58.28	71.55	2.15	7.61	19.60	9.79	10.04	22.65	37.67	23.45
+MAGSAC$_\uparrow$	58.35	94.96	72.39	30.34	46.86	62.64	46.61	43.48	62.01	76.01	60.87	74.71	64.38	44.87	8.16	17.33	29.01	17.32	11.14	24.06	38.68	24.63
+MAGSAC$_\downarrow$	63.53	95.62	63.92	30.67	46.13	61.35	46.05	41.48	60.64	76.15	59.43	78.06	64.28	36.05	6.65	16.13	29.18	17.32	11.90	24.60	39.68	25.40
+AdaLAM	**94.22**	89.43	8.63	10.68	18.04	27.41	18.71	17.57	29.07	41.84	29.49	**96.95**	43.29	4.29	0.65	1.89	4.23	2.26	1.33	3.40	7.23	3.99
+MAGSAC$_\uparrow$	**94.89**	73.94	7.64	12.86	21.72	31.44	22.00	17.16	29.09	41.38	29.21	**97.79**	26.70	3.12	1.17	2.61	5.21	3.00	1.34	3.17	6.13	3.54
+MAGSAC$_\downarrow$	**95.35**	74.19	7.16	13.08	22.28	32.30	22.55	15.69	28.33	41.17	28.40	**97.95**	26.60	2.89	1.05	2.76	5.42	3.08	1.39	3.17	6.55	3.70
+CC	42.68	88.12	88.40	10.59	20.03	33.64	21.42	40.01	58.00	72.81	56.94	44.57	58.13	74.48	1.46	4.70	11.14	5.77	8.32	17.80	29.84	18.66
+MAGSAC$_\uparrow$	58.99	95.09	69.84	32.13	46.53	60.90	46.52	42.19	59.90	74.56	58.89	76.55	64.24	42.08	4.81	11.02	20.18	12.00	7.89	18.14	30.37	18.80
+MAGSAC$_\downarrow$	64.04	**95.70**	61.73	32.61	47.04	61.28	46.98	40.63	59.10	74.28	58.00	79.60	64.21	36.63	4.66	10.85	19.95	11.82	8.38	17.78	29.69	18.62
+CLNet	46.21	87.24	84.90	1.61	3.86	12.39	5.95	35.98	55.57	72.01	54.52	70.52	61.97	52.50	0.66	2.18	6.92	3.25	6.88	17.07	30.16	18.04
+MAGSAC$_\uparrow$	60.92	94.63	66.91	20.65	33.72	48.68	34.35	36.07	55.49	72.06	54.54	79.84	65.01	37.52	2.40	6.95	15.09	8.15	6.76	16.21	28.47	17.15
+MAGSAC$_\downarrow$	65.79	95.85	59.11	20.99	34.93	50.67	35.53	36.39	56.12	72.42	54.97	82.42	64.99	32.76	2.30	6.82	14.99	8.03	7.37	16.75	28.84	17.65
+ConvMatch	57.19	87.09	74.85	11.14	21.84	35.50	22.93	36.05	58.55	72.53	55.54	77.98	66.55	43.33	4.74	12.09	23.98	13.60	10.65	22.73	36.95	23.46
+MAGSAC$_\uparrow$	68.42	92.80	59.43	22.19	35.70	49.85	35.91	36.73	55.73	71.08	54.51	80.89	66.38	37.51	5.31	12.66	24.38	14.12	10.41	22.56	36.95	23.30
+MAGSAC$_\downarrow$	72.39	93.42	52.37	22.32	35.41	50.10	35.94	36.71	54.79	69.78	53.76											
+DeMatch	51.43	87.94	80.27	9.58	18.90	32.07	20.33	33.75	53.04	69.90	52.23	66.07	60.87	62.02	1.39	4.96	12.75	6.37	7.58	18.64	32.29	19.51
+MAGSAC$_\uparrow$	64.19	94.79	63.54	22.62	35.44	50.12	36.06	35.99	55.57	72.08	54.55	78.63	64.81	40.89	4.44	10.49	21.74	12.22	8.81	20.05	33.98	20.95
+MAGSAC$_\downarrow$	68.70	95.38	55.92	22.86	35.65	50.13	36.21	36.86	56.31	72.54	55.24	81.46	64.73	35.32	4.50	11.19	21.71	12.46	8.30	19.51	33.85	20.55
+FC-GNN	50.06	94.27	84.19	14.28	24.85	40.47	26.53	43.09	64.96	77.72	63.59	72.92	**67.12**	49.46	3.77	9.02	17.74	10.18	12.85	25.96	39.83	26.21
+MAGSAC$_\uparrow$	53.11	**95.65**	80.83	**45.09**	**59.54**	**72.88**	**59.19**	46.63	64.44	77.53	62.96	76.26	**68.99**	44.51	8.15	17.35	29.14	18.22	12.53	25.05	39.35	25.64
+MAGSAC$_\downarrow$	54.47	**96.87**	78.59	**45.85**	**60.52**	**73.26**	**59.88**	44.31	64.87	77.25	63.41	77.57	**69.07**	42.13	8.69	17.89	29.77	18.78	12.58	25.70	39.78	26.02
+GMS	52.55	81.19	68.66	8.47	16.29	28.75	17.84	36.40	52.88	65.99	51.76	79.39	56.51	33.54	1.13	3.83	8.77	4.54	5.47	12.11	21.35	13.17
+MAGSAC$_\uparrow$	65.30	86.33	54.27	32.57	47.52	45.19	34.22	33.54	52.02	60.01	52.54	85.67	55.02	24.39	2.84	7.65	14.66	8.38	5.16	12.63	22.12	13.30
+MAGSAC$_\downarrow$	69.51	86.89	48.11	32.93	45.49	57.22	45.21	39.46	55.18	67.38	54.01	87.43	54.96	21.49	2.76	7.52	13.96	8.04	4.96	12.26	21.27	12.83
+MS²DG-Net	66.90	78.67	52.70	0.00	0.22	0.92	0.38	29.97	46.80	62.41	46.39	64.15	51.72	55.98	0.00	0.12	0.74	0.29	6.52	15.58	26.94	16.35
+MAGSAC$_\uparrow$	77.72	90.52	41.80	22.90	36.57	52.03	37.17	29.34	46.54	62.59	46.16	82.01	63.27	34.44	3.04	8.65	18.74	9.72	6.43	15.42	27.26	16.37
+MAGSAC$_\downarrow$	80.41	91.07	36.98	23.22	37.67	52.91	37.93	28.55	46.67	62.94	46.05	84.12	63.12	30.26	3.68	9.17	17.46	10.10	6.78	15.73	26.86	16.46
+NCC	0.00	55.27	**100.11**	0.04	0.09	0.69	0.26	47.13	64.21	76.55	62.73	0.00	34.55	**100.04**	0.07	0.18	1.08	0.44	10.87	23.08	36.95	23.63
+MAGSAC$_\uparrow$	52.59	92.74	80.67	32.08	44.31	56.35	44.25	45.39	63.07	76.80	61.75	69.30	60.73	53.46	7.32	16.75	28.39	17.49	12.24	25.28	39.38	25.64
+MAGSAC$_\downarrow$	56.46	**93.35**	74.45	34.22	47.51	59.51	47.08	43.93	62.26	76.45	60.88	72.88	60.66	47.04	7.61	16.70	27.90	17.40	11.96	24.48	38.65	25.03
+NCMNet	45.95	87.48	85.85	1.83	4.67	12.84	6.45	36.39	56.43	72.79	55.20	70.14	61.42	51.98	1.06	3.39	8.56	4.34	7.73	16.98	29.58	18.10
+MAGSAC$_\uparrow$	60.68	94.71	67.68	21.46	34.22	50.30	35.33	35.60	55.19	71.88	54.22	79.42	64.34	37.46	2.99	8.12	16.38	9.16	7.03	17.23	29.58	17.95
+MAGSAC$_\downarrow$	65.58	**95.44**	59.78	20.87	34.37	50.32	35.18	36.90	56.08	72.26	55.08	81.95	64.40	32.94	3.67	8.46	16.59	9.57	7.41	16.92	29.18	17.84
+OANet	68.37	89.69	56.00	6.29	14.97	27.20	16.15	32.74	50.87	67.78	50.46	81.01	59.55	35.42	1.83	5.88	13.08	6.93	4.82	12.85	24.84	14.17
+MAGSAC$_\uparrow$	75.10	94.55	46.49	16.02	28.48	44.08	29.53	33.16	51.57	67.86	50.87	86.22	61.68	26.29	2.90	8.01	16.84	9.25	6.34	15.07	26.25	15.89
+MAGSAC$_\downarrow$	78.16	95.09	41.09	15.55	27.57	43.41	28.84	31.15	50.61	67.10	49.62	87.66	61.54	23.55	3.11	8.12	17.15	9.46	5.38	14.15	25.88	15.14
+MOP$_{0.5K}$+MiHo	34.40	80.55	**95.13**	1.18	3.02	9.31	4.50	46.17	62.93	76.58	61.89	43.48	50.24	82.69	0.38	0.95	3.81	1.71	11.55	23.85	37.95	24.45
+MAGSAC$_\uparrow$	56.66	93.79	73.39	37.54	52.48	65.60	51.87	46.13	63.79	76.84	62.25	72.88	63.42	49.04	6.92	15.60	27.67	16.73	12.32	24.68	38.66	25.22
+MAGSAC$_\downarrow$	62.12	94.52	64.76	37.59	52.48	66.05	52.04	45.50	62.66	76.29	61.48	76.71	63.33	42.10	8.02	17.21	29.02	18.08	12.92	25.24	39.30	25.82
+MOP$_{0.5K}$+MiHo+NCC	34.40	81.17	**97.17**	1.13	3.02	9.17	4.44	**49.35**	66.34	78.91	64.83	43.48	50.39	83.80	0.22	0.80	3.70	1.57	13.86	27.23	41.98	27.69
+MAGSAC$_\uparrow$	51.27	94.73	83.79	38.71	52.63	65.93	52.42	46.24	64.33	77.57	62.71	69.76	64.39	56.04	8.44	18.36	30.08	18.96	13.80	**28.21**	**42.79**	**26.33**
+MAGSAC$_\downarrow$	54.22	96.13	76.94	39.95	54.15	67.92	53.89	47.18	65.70	78.40	63.76	74.26	64.18	50.79	**8.77**	18.60	30.22	19.20	13.40	27.05	41.09	27.02
+MOP$_{1.0K}$+MiHo	33.67	80.06	**95.73**	0.52	2.41	8.10	3.67	46.74	64.05	77.10	62.63	42.29	49.97	82.03	0.29	0.97	3.59	1.49	12.56	25.17	39.35	25.89
+MAGSAC$_\uparrow$	56.53	93.78	73.70	37.47	52.61	65.51	51.11	46.03	63.01	76.65	61.70	70.73	63.52	49.73	7.73	16.96	28.83	17.84	12.60	24.67	39.12	25.57
+MAGSAC$_\downarrow$	62.05	94.56	65.03	39.21	53.64	66.10	52.98	45.01	62.29	75.42	60.91	76.51	63.38	42.78	7.54	16.63	28.26	17.48	12.82	25.66	39.93	26.14
+MOP$_{1.0K}$+MiHo+NCC	33.67	80.77	**97.86**	0.73	2.69	8.17	3.86	49.22	66.13	78.71	64.69	42.29	50.23	86.06	0.20	0.65	3.31	1.39	13.40	**27.79**	42.34	27.85
+MAGSAC$_\uparrow$	51.14	94.84	84.29	40.26	54.05	67.02	53.78	47.46	65.62	78.55	63.88	69.47	64.65	56.98	**9.34**	**19.21**	**30.87**	**19.37**	13.60	26.77	41.30	27.22
+MAGSAC$_\downarrow$	54.10	95.37	79.53	41.50	**55.53**	68.26	55.10	48.28	65.69	78.52	64.16	72.39	64.63	51.42	8.68	**19.05**	**30.37**	**19.37**	13.76	26.41	40.52	26.89
+MOP$_{1.5K}$+MiHo	33.33	79.84	**95.97**	0.83	2.65	8.06	3.83	46.86	63.85	76.90	62.53	41.50	49.45	84.74	0.25	0.81	4.06	1.71	11.95	24.14	38.57	24.99
+MAGSAC$_\uparrow$	56.49	93.83	73.91	37.12	51.37	64.66	51.05	46.18	62.98	75.93	61.70	71.61	63.53	49.82	7.85	16.61	27.89	17.62	11.73	24.34	38.46	24.84
+MAGSAC$_\downarrow$	62.01	94.52	65.19	38.28	52.60	65.75	52.20	45.99	62.61	76.03	61.55	76.38	63.70	43.10	7.89	16.70	28.55	17.72	12.22	25.14	39.37	25.58
+MOP$_{1.5K}$+MiHo+NCC	33.33	80.57	**96.19**	0.94	2.98	8.26	4.06	48.71	66.23	**79.24**	64.73	41.50	49.59	84.42	0.20	0.72	1.24	1.72	13.92	27.76	**42.53**	**28.07**
+MAGSAC$_\uparrow$	51.07	94.93	84.69	38.69	53.32	66.17	52.73	49.11	**66.88**	79.11	64.84	60.37	64.43	56.94	8.23	17.91	29.59	18.55	13.23	26.56	41.56	27.12
+MAGSAC$_\downarrow$	54.05	95.35	79.72	39.05	53.75	67.08	53.29	48.11	65.27	78.15	63.77	72.27	64.54	51.57	**8.86**	**18.74**	**30.39**	**19.33**	13.79	**27.93**	**43.57**	**28.10**
+MOP$_{2.0K}$+MiHo	33.04	79.54	**96.31**	0.73	2.84	8.32	3.96	46.81	64.04	77.04	62.63	41.01	49.50	85.48	0.17	0.65	3.31	1.45	12.23	25.00	39.51	25.58
+MAGSAC$_\uparrow$	56.41	93.80	74.16	36.60	50.65	64.58	50.61	46.58	64.07	76.97	62.54	72.52	63.73	50.25	7.09	15.76	27.63	16.83	11.82	24.47	38.55	24.95
+MAGSAC$_\downarrow$	61.98	94.51	65.32	37.78	52.20	66.18	52.05	46.17	63.63	77.45	61.87	76.34	63.62	43.21	7.21	15.85	27.62	16.83	12.19	25.29	39.28	25.59
+MOP$_{2.0K}$+MiHo+NCC	33.04	80.26	**98.53**	0.73	2.92	8.22	3.96	**49.41**	**66.87**	**79.25**	**65.08**	41.01	49.73	**87.18**	0.09	0.43	3.33	1.29	**14.26**	27.55	42.34	28.05
+MAGSAC$_\uparrow$	51.01	94.83	84.80	40.67	54.64	67.58	54.29	**49.51**	**66.84**	**79.20**	**65.18**	57.14	64.55	57.14	8.73	18.15	29.83	18.90	13.74	27.29	41.80	27.61
+MAGSAC$_\downarrow$	53.94	95.33	80.08	40.98	55.12	**68.26**	54.79	48.44	65.93	78.84	64.40	72.15	64.67	51.75	8.30	18.04	29.50	18.61	13.95	27.41	41.82	27.73
+MOP$_{0.5K}$	39.06	84.26	91.79	3.90	8.06	17.36	9.77	43.86	61.60	74.73	60.06	55.88	55.43	70.52	0.94	2.80	8.08	3.94	11.59	23.76	37.41	24.25
+MAGSAC$_\uparrow$	56.55	94.91	71.67	37.71	51.40	63.94	51.01	45.92	63.08	76.07	61.69	75.25	62.63	44.77	6.38	14.53	25.93	15.61	11.60	23.78	37.37	24.10
+MAGSAC$_\downarrow$	62.62	95.63	63.23	38.39	52.10	64.99	51.86	45.34	62.36	75.70	61.35	78.70	62.46	38.52	6.95	14.57	26.06	15.96	11.33	23.26	37.01	23.87
+MOP$_{0.5K}$+NCC	39.06	84.78	**93.61**	3.68	7.35	15.92	9.58	46.26	63.78	76.33	62.12	55.88	55.34	71.35	1.06	2.59	7.42	3.69	13.18	26.40	40.26	26.62
+MAGSAC$_\uparrow$	52.01	93.92	81.55	39.69	52.92	64.98	52.53	46.00	63.70	76.57	62.09	72.07	63.34	51.37	8.15	17.77	28.65	18.19	13.23	26.51	40.01	26.59
+MAGSAC$_\downarrow$	54.88	94.38	76.93	41.15	54.68	66.53	54.12	44.80	62.47	75.30	60.71	74.55	63.46	46.82	8.50	18.18	29.14	18.61	13.00	25.66	39.18	25.95
+MOP$_{1.0K}$	38.46	84.00	92.58	3.35	7.59	16.61	9.18	44.73	61.53	74.83	60.36	55.19	55.67	72.04	1.20	3.31	7.97	4.16	11.57	24.30	37.83	24.57
+MAGSAC$_\uparrow$	57.09	93.25	72.11	37.48	52.11	65.25	51.63	44.89	62.35	75.66	60.96	74.55	63.10	45.55	7.58	16.06	26.85	16.83	11.55	23.77	37.78	24.37
+MAGSAC$_\downarrow$	62.51	93.91	63.57	38.05	52.43	65.57	52.09	44.54	62.63	75.54	61.17	78.50	63.03	39.28	6.93	15.09	26.63	16.22	11.54	23.37	36.28	23.73
+MOP$_{1.0K}$+NCC	38.46	84.56	**94.44**	2.71	6.91	15.75	8.46	47.05	64.47	77.18	62.90	55.19	55.70	73.07	0.87	2.81	7.57	3.75	12.97	26.00	40.34	26.44
+MAGSAC$_\uparrow$	51.83	94.23	82.18	39.67	53.90	66.57	53.38	46.16	64.31	77.16	62.54	71.82	63.93	52.30	8.51	17.97	29.29	18.59	13.26	26.43	40.97	26.73
+MAGSAC$_\downarrow$	54.67	94.58	77.57	40.91	55.08	**67.60**	54.84	44.44	62.80	75.86	61.22	74.78	63.79	47.97	8.59	18.19	29.18	18.63	13.20	25.66	39.18	25.95
+MOP$_{1.5K}$	38.24	83.88	92.02	3.18	7.45	16.09	8.87	44.94	61.19	74.86	60.14	57.01	55.78	72.39	1.10	3.00	8.31	4.14	11.35	24.05	37.40	24.28
+MAGSAC$_\uparrow$	57.01	93.27	72.39	36.96	51.39	64.95	50.72	45.77	61.99	75.53	60.57	74.91	63.04	44.91	7.37	16.18	26.85	16.97	12.09	23.77	37.64	24.50
+MAGSAC$_\downarrow$	62.41	93.94	63.91	38.35	52.66	65.68	52.23	44.62	62.36	75.82	60.93	78.41	63.02	39.50	7.60	15.39	26.74	16.43	12.02	24.61	37.53	24.63
+MOP$_{1.5K}$+NCC	38.24	84.44	**94.94**	3.02	7.04	15.44	8.50	47.39	65.17	77.45	63.34	54.86	55.50	73.49	0.69	2.52	7.52	3.57	13.52	26.44	41.27	27.08
+MAGSAC$_\uparrow$	51.68	94.19	82.65	40.01	53.40	66.29	53.23	47.94	65.35	78.87	63.72	71.66	63.86	52.69	7.95	17.32	29.03	18.10	13.01	26.66	40.67	27.16
+MAGSAC$_\downarrow$	54.57	94.57	77.95	**41.68**	55.50	68.54	**55.11**	46.51	64.43	77.28	62.74	74.30	64.07	47.83	8.50	17.89	29.29	18.56	13.13	26.39	40.47	26.66
+MOP$_{2.0K}$	38.02	83.91	93.37	3.87	8.25	17.39	9.84	45.40	62.99	75.70	61.36	54.66	55.71	72.97	0.52	2.63	8.04	3.73	11.46	24.27	37.55	24.43
+MAGSAC$_\uparrow$	56.94	93.43	72.67	37.62	51.55	64.85	51.34	45.79	63.51	76.39	61.90	74.78	63.15	45.77	7.40	15.54	27.11	16.68	12.18	23.95	37.36	24.49
+MAGSAC$_\downarrow$	62.37	94.12	64.11	38.76	52.96	66.26	52.64	45.76	63.08	76.08	61.63	78.41	63.34	39.45	7.17	15.39	26.74	16.43	12.02	24.61	37.53	24.92
+MOP$_{2.0K}$+NCC	38.02	84.45	**95.23**	3.74	8.08	16.84	9.55	48.80	65.76	77.81	64.12	54.66	55.67	73.77	0.64	2.40	7.75	3.60	**14.07**	26.84	41.20	27.27
+MAGSAC$_\uparrow$	51.67	94.27	82.76	38.19	52.34	65.68	52.41	46.74	64.29	77.56	62.97	71.54	64.18	53.01	8.63	17.99	29.47	18.70	13.59	26.82	40.63	27.01
+MAGSAC$_\downarrow$	54.51	94.65	78.12	40.14	54.13	67.03	53.77	47.52	65.16	78.29	63.44	74.36	64.31	48.12	8.69	18.18	29.27	18.63	13.57	26.82	40.63	27.01