Metriche di validazione

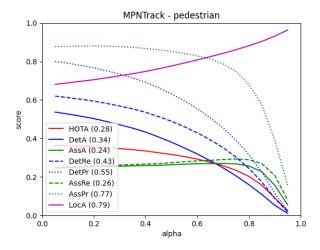
```
In [ ]: import pandas as pd
              import numpy as np
In [ ]: path = 'Tabelle/'
             conf06 = path + 'conf06/'
conf07 = path + 'conf07/'
In []: hota_metrics_col = ['seq', 'HOTA_AUC', 'DetA_AUC', 'AssA_AUC', 'DetRe_AUC', 'DetRe_AUC', 'DetPr_AUC', 'AssRe_AUC', 'AssPr_AUC', 'LocA_AUC', 'OWTA_AUC'
clear_metrics_col = ['seq', 'MOTA', 'MOTP', 'MODA', 'CLR_Re', 'CLR_Pr', 'MTR', 'PTR', 'MLR', 'sMOTA', 'CLR_TP', 'CLR_FN', 'CLR_FP', 'IDSW', 'MT', 'PT', 'ML
count_col = ['seq', 'Dets', 'GT_Dets', 'IDs', 'GT_IDs']
In [ ]: def print_hota_metrics(data_path):
                    data = pd.read_csv(data_path, header=0)
hota_metrics = data[hota_metrics_col]
hota_metrics.loc[:,'seq'] = hota_metrics['seq'].apply(lambda_txt: txt.replace('-DPM', ''))
hota_metrics.iloc[:,1:] *= 100
                    return hota_metrics
In [ ]: def print_clear_metrics(data_path):
                    data = pd.read_csv(data_path, header=0)
clear_metrics = data[clear_metrics_col]
                    clear_metrics.loc[:,'seq'] = clear_metrics['seq'].apply(lambda txt: txt.replace('-DPM', ''))
clear_metrics.iloc[:,1:10] *= 100
return clear_metrics
In [ ]: def print_count_metrics(data_path):
                    data = pd.read_csv(data_path, header=0)
count_metrics = data[count_col]
                    count_metrics.loc(:, 'seq') = count_metrics['seq'].apply(lambda txt: txt.replace('-DPM', ''))
return count_metrics
```

Confidence: 0.6

Soglie: 0.3, 0.3

```
In [ ]: data_path = conf06 + '0303/' + 'pedestrian_detailed.csv'
In [ ]: print_hota_metrics(data_path)
Out[]:
              seq HOTA__AUC DetA__AUC AssA__AUC DetRe__AUC DetPr__AUC AssRe__AUC AssPr__AUC LocA__AUC OWTA_
                                                                                                               AUC HOTA(0) LocA(0) HOTALocA(0)
                                                   29.417430
                    18.376778 24.937813 14.764412
       0 MOT17-02
                                                                53.520539
                                                                          15.384268
                                                                                     71.915943
                                                                                                76.636518
                                                                                                            20.169617 23.916228 63.030299
                                                                                                                                        15.074470
       1 MOT17-05 32.348426 36.183255 29.485096 48.639127 51.278287 31.617059 73.128191 77.498865 37.706291 46.107842 66.677499 30.743556
       2 MOT17-09 34.830363 48.219931 25.586127 60.782802
                                                                                                          39.288996 44.273376 75.722980
                                                                63.626582 27.296530 78.456011
                                                                                                82.675771
                                                                                                                                        33.525120
       3 MOT17-10 18.266002 32.586675 11.087435 39.916209 54.432736 11.992191 70.604402 76.211919 20.448157 24.700939 64.400919 15.907632
       4 MOT17-11 40.551173 42.424594 39.389054 58.806140
                                                                56.357377
                                                                          41.600827 84.504760 83.753654
                                                                                                           47.950966 50.326906 74.695593
                                                                                                                                        37.591981
       5 COMBINED 27.921316 33.982343 24.151977 42.828157 55.301043 25.739456 76.568372 79.191582 31.619623 36.36469 68.115378 24.750723
In [ ]: print_clear_metrics(data_path)
           seq MOTA MOTP
                                      MODA CLR_Re
                                                       CLR_Pr
                                                                 MTR
                                                                          PTR
                                                                                   MLR SMOTA CLR_TP CLR_FN CLR_FP IDSW MT PT ML
                                                                                                                      890 7 26 29 1545.0
       0 MOT17-02 9.994080 74.282006 14.783919 34.874334 63.448546 11.290323 41.935484 46.774194 1.025101 6480
                                                                                                              3733
       1 MOT17-05 15.570334 74.827807 23.232615 59.042938 62.246609 7.518797 77.443609 15.037594 0.707932 4084 2833
                                                                                                              2477 530 10 103 20 630.0
       2 MOT17-09 41.276995 81.056569 45.502347 70.516432 73.815608 38.461538 53.846154 7.692308 27.918764 3755
                                                                                                         1570
                                                                                                               1332
                                                                                                                     225 10 14 2 265.0
       3 MOT17-10 10.966586 74.035438 22.112314 47.721785 65.077005 8.771930 78.947368 12.280702 -1.424166 6127
                                                                                                         6712
                                                                                                               3288 1431 5 45 7 1814.0
       4 MOT17-11 21.958457 83.764744 24.417126 64.381094 61.700183 26.666667 38.666667 34.666667 11.506021 6075
                                                                                                        3361
                                                                                                               3771 232 20 29 26 326.0
       5 COMBINED 16.219067 77.440426 22.449056 49.947267 64.493458 14.730878 61.473088 23.796034 4.951176 26521 26577 14601 3308 52 217 84 4580.0
```

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	10213	18581	1073	62
	1	MOT17-05	6561	6917	1349	133
	2	MOT17-09	5087	5325	516	26
	3	MOT17-10	9415	12839	2068	57
	4	MOT17-11	9846	9436	1754	75
	5	COMBINED	41122	53098	6760	353



Soglie: 0.3, 0.4

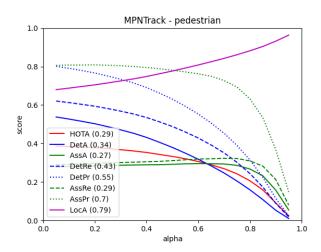
In []: data_path = conf06 + '0304/' + 'pedestrian_detailed.csv'
In []: print_hota_metrics(data_path)

seq HOTA_AUC DetA_AUC AssA_AUC DetRe_AUC DetPr_AUC AssRe_AUC AssPr_AUC LocA_AUC OWTA_AUC HOTA(0) LocA(0) HOTALocA(0) 0 MOT17-02 20 008425 24 887270 17 263866 29 362195 53.425279 18.374225 65 543305 76 590101 21.939469 26.737857 62.888213 16.814960 31.246933 48.444336 51.065144 36.218862 63.262226 **1** MOT17-05 33.242425 77.445993 38.766699 47.869553 66.371016 35.981956 31.771509 2 MOT17-09 36.776090 48.316223 28.410420 60.892513 63.678836 30.649510 71.891478 82.691570 41.466257 46.815250 75.807137 35.489301 13.230752 39.830123 **3** MOT17-10 20.056452 22.437526 27.690369 64.188945 32.493898 54.303807 14.314048 63.217022 76.169420 17.774156 58.805024 4 MOT17-11 41.869938 42.420431 41.866075 56.350585 44.578176 82.119644 83.752464 49.485985 52.627326 74.678700 39.301403 **5** COMBINED 29.326537 33.923085 26.506382 42.773442 28.864561 70.479266 79.167763 33.197461 38.692396 67.987197 55.219650 26.305875

In []: print_clear_metrics(data_path)

Out[]: seq MOTA MOTP MODA CLR_Re MLR SMOTA CLR_TP CLR_FN CLR_FP IDSW MT PT ML CLR_Pr **0** MOT17-02 10.865938 74.262570 14.746246 34.852807 63.415590 11.290323 41.935484 46.774194 1.895721 12105 3736 **1** MOT17-05 17.536504 74.844196 23.362730 59.115223 62.313319 8.270677 76.691729 15.037594 2.665594 4089 **2** MOT17-09 42.422535 81.103205 45.746479 70.685446 73.919874 38.461538 53.846154 7.692308 29.065251 1561 1328 **3** MOT17-10 13.420048 74.047044 22.096737 47.721785 65.063184 8.771930 78.947368 12.280702 1.034834 6127 **4** MOT17-11 22.498940 83.765535 24.406528 64.381094 61.693917 26.666667 38.666667 34.666667 12.047014 180 20 29 26 324.0 5 COMBINED 17.584466 77.448895 22.471656 49.966100 64.50527 15.014164 61.189802 23.796034 6.316559 26531 26567 14599 2595 53 216 84 4580.0

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	10212	18581	545	62
	1	MOT17-05	6562	6917	829	133
	2	MOT17-09	5092	5325	339	26
	3	MOT17-10	9417	12839	991	57
	4	MOT17-11	9847	9436	1120	75
	5	COMBINED	41130	53098	3824	353



Soglie: 0.3, 0.5

Out[

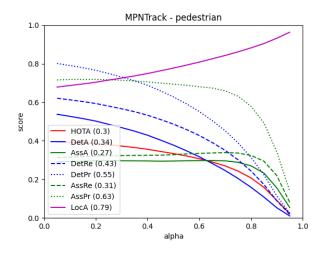
[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0 MOT1	7-02	19.567931	24.777677	16.556714	29.273820	53.233200	18.164830	58.114287	76.610177	21.467184	26.372436	62.741411	16.546438
	1 MOT1	7-05	32.892561	35.853744	30.579506	48.330201	50.944834	38.636036	52.794529	77.449560	38.351601	48.280385	66.221262	31.971880
	2 MOT1	7-09	36.374199	48.328745	27.749896	60.908327	63.695374	31.304705	63.715632	82.697138	41.002264	46.677101	75.753114	35.359357
	3 MOT1	7-10	21.414323	32.390684	15.004578	39.731738	54.186933	16.467840	56.223653	76.157418	23.948091	29.932201	64.088217	19.183014
	4 MOT1	7-11	42.777769	42.262951	43.825733	58.649963	56.190583	47.889420	76.963080	83.691643	50.578753	54.198178	74.448621	40.349796
	5 COMBI	NED	29.609313	33.814511	27.030756	42.677889	55.089596	30.594704	63.133285	79.159047	33.523134	39.468046	67.847403	26.778044

In []: print_clear_metrics(data_path)

]:	se	ATOM P	MOTP	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	MT	PT	ML	Frag
	0 MOT17-0	2 11.032775	74.255459	14.735482	34.863570	63.397925	11.290323	41.935484	46.774194	2.057309	6478	12103	3740	688	7	26	29	1547.0
	1 MOT17-0	5 18.158161	74.848829	23.304901	59.086309	62.282841	6.766917	78.195489	15.037594	3.297263	4087	2830	2475	356	9	104	20	629.0
	2 MOT17-0	9 42.854460	81.090212	45.821596	70.723005	73.959152	38.461538	53.846154	7.692308	29.480890	3766	1559	1326	158	10	14	2	266.0
	3 MOT17-1	14.642885	74.038569	22.104525	47.713996	65.073295	8.771930	78.947368	12.280702	2.255649	6126	6713	3288	958	5	45	7	1812.0
	4 MOT17-1	1 22.647308	83.769635	24.364137	64.370496	61.671236	26.666667	38.666667	34.666667	12.199742	6074	3362	3775	162	20	29	26	324.0
	5 COMBINE	18.089194	77.445132	22.462240	49.966100	64.497387	14.447592	61.756374	23.796034	6.819406	26531	26567	14604	2322	51	218	84	4578.0

In []: print_count_metrics(data_path)

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	10218	18581	313	62
	1	MOT17-05	6562	6917	409	133
	2	MOT17-09	5092	5325	235	26
	3	MOT17-10	9414	12839	502	57
	4	MOT17-11	9849	9436	651	75
	5	COMBINED	41135	53098	2110	353



Soglie: 0.4, 0.3

In []:	data_path = conf06 + '0403/' + 'pedestrian_detailed.csv'

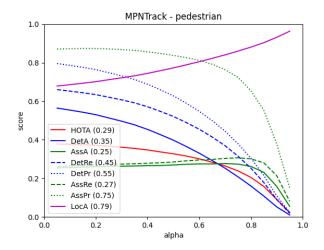
In []: print_hota_metrics(data_path)

Out[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	19.312467	26.342888	15.661512	31.456298	52.990886	16.375635	71.160455	76.262951	21.358938	25.300849	62.484080	15.809003
	1	MOT17-05	33.063579	38.238991	29.185514	52.319609	51.369019	31.711882	72.304879	77.538814	38.895672	47.268886	67.108712	31.721541
	2	MOT17-09	37.418662	49.405571	28.793206	62.995799	63.221378	31.611004	76.922859	82.579388	42.449861	47.537641	75.588103	35.932801
	3	MOT17-10	19.509423	34.989835	11.763544	43.643340	54.206911	12.692051	69.509362	76.134900	22.048257	26.716038	64.692445	17.283258
	4	MOT17-11	40.743448	42.553945	39.631096	60.406952	55.029929	43.020679	82.388567	83.431648	48.758723	51.230201	74.192809	38.009126
	5	COMBINED	28.828535	35.450673	24.731125	45.428711	54.727600	26.839736	75.184043	78.929051	32.939092	37.864783	67.878588	25.702080

In []: print_clear_metrics(data_path)

Out[]:		seq	мота	мотр	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	мт	PT	ML	Frag
	0	MOT17-02	10.817502	73.680225	15.531995	37.446854	63.082502	12.903226	48.387097	38.709677	0.961574	6958	11623	4072	876	8	30	24	1263.0
	1	MOT17-05	18.895475	74.764337	25.459014	63.654764	62.498226	17.293233	69.924812	12.781955	2.831773	4403	2514	2642	454	23	93	17	434.0
	2	MOT17-09	42.779343	80.912913	46.384977	73.014085	73.275537	46.153846	46.153846	7.692308	28.843081	3888	1437	1418	192	12	12	2	178.0
	3	MOT17-10	14.518265	73.590378	24.433367	52.472934	65.173648	15.789474	71.929825	12.280702	0.660361	6737	6102	3600	1273	9	41	7	1380.0
	4	MOT17-11	20.729123	83.384080	22.742688	66.256889	60.359143	28.000000	38.666667	33.333333	9.719931	6252	3184	4106	190	21	29	25	228.0
	5	COMBINED	17.731365	76.972145	23.353045	53.180911	64.066612	20.679887	58.073654	21.246459	5.484942	28238	24860	15838	2985	73	205	75	3483.0

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	11030	18581	1046	62
	1	MOT17-05	7045	6917	1235	133
	2	MOT17-09	5306	5325	470	26
	3	MOT17-10	10337	12839	1900	57
	4	MOT17-11	10358	9436	1632	75
	5	COMBINED	44076	53098	6283	353



Soglie: 0.4, 0.4

In []: data_path = conf06 + '0404/' + 'pedestrian_detailed.csv'

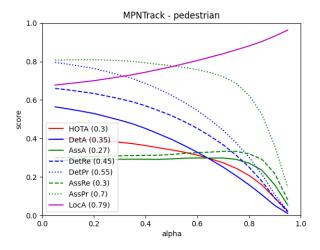
In []: print_hota_metrics(data_path)

Out[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	21.183593	26.159684	18.653350	31.279830	52.717508	19.900970	64.675361	76.223274	23.418432	28.417972	62.250334	17.690282
	1	MOT17-05	34.428988	38.126151	31.684628	52.223736	51.231255	36.543975	64.952484	77.493447	40.517023	49.339342	66.886584	33.001400
	2	MOT17-09	38.519899	49.389704	30.495387	62.979985	63.205507	33.567030	74.154273	82.569464	43.693810	49.063961	75.584111	37.084559
	3	MOT17-10	20.558406	34.803588	13.023010	43.443292	53.953223	14.138709	62.497155	75.995189	23.227364	28.616309	64.398716	18.428536
	4	MOT17-11	41.905979	42.651402	41.699759	60.503447	55.117834	45.599697	80.795532	83.447188	50.104524	53.493296	74.286295	39.738187
	5	COMBINED	30.098569	35.341383	26.875976	45.321659	54.596158	29.660641	70.190699	78.887820	34.382796	40.031945	67.733168	27.114905

In []: print_clear_metrics(data_path)

Out[]:		seq	мота	мотр	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	мт	PT	ML	Frag
	0	MOT17-02	11.414886	73.674257	15.569668	37.452236	63.120181	12.903226	46.774194	40.322581	1.555307	6959	11622	4066	772	8	29	25	1265.0
	1	MOT17-05	20.066503	74.762060	25.545757	63.741506	62.530138	17.293233	69.924812	12.781955	3.979459	4409	2508	2642	379	23	93	17	435.0
	2	MOT17-09	43.230047	80.920309	46.347418	72.995305	73.256691	42.307692	50.000000	7.692308	29.302768	3887	1438	1419	166	11	13	2	179.0
	3	MOT17-10	16.169484	73.621643	24.503466	52.511878	65.215709	15.789474	71.929825	12.280702	2.317713	6742	6097	3596	1070	9	41	7	1377.0
	4	MOT17-11	21.057652	83.384080	22.742688	66.256889	60.359143	28.000000	38.666667	33.333333	10.048460	6252	3184	4106	159	21	29	25	228.0
	5	COMBINED	18.595804	76.977475	23.390712	53.201627	64.088661	20.396601	58.073654	21.529745	6.347446	28249	24849	15829	2546	72	205	76	3484.0

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	11025	18581	550	62
	1	MOT17-05	7051	6917	799	133
	2	MOT17-09	5306	5325	345	26
	3	MOT17-10	10338	12839	1010	57
	4	MOT17-11	10358	9436	1093	75
	5	COMBINED	44078	53098	3797	353



Soglie: 0.4, 0.5

In []: data_path = conf06 + '0405/' + 'pedestrian_detailed.csv'

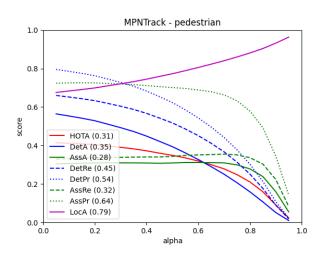
In []: print_hota_metrics(data_path)

Out[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	22.118929	25.999093	20.457742	31.124040	52.469224	22.551556	56.231139	76.155094	24.465564	30.133885	61.890712	18.650076
	1	MOT17-05	34.920619	37.947242	32.645007	52.050250	51.068309	40.579211	56.813480	77.467125	41.098719	50.781821	66.670988	33.856742
	2	MOT17-09	38.629852	48.990798	30.883991	62.643934	62.880103	34.589831	66.973612	82.531165	43.869020	49.624934	75.314155	37.374600
	3	MOT17-10	22.309535	34.874759	15.147414	43.524869	54.038854	16.711699	55.655506	76.047043	25.183081	31.213720	64.480487	20.126759
	4	MOT17-11	42.372537	42.549349	42.691070	60.411972	55.023877	47.226296	77.885889	83.444651	50.674422	54.390678	74.180455	40.347253
	5	COMBINED	30.839858	35.223492	28.206219	45.214311	54.466842	31.981694	63.659850	78.871927	35.232647	41.437166	67.566024	27.997446

In []: print_clear_metrics(data_path)

Out[]:		seq	мота	мотр	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	мт	PT	ML	Frag
	0	MOT17-02	11.570960	73.648158	15.564286	37.441472	63.119216	12.903226	48.387097	38.709677	1.704442	6957	11624	4065	742	8	30	24	1266.0
	1	MOT17-05	20.745988	74.762388	25.473471	63.698135	62.496454	17.293233	70.676692	12.030075	4.670100	4406	2511	2644	327	23	94	16	435.0
	2	MOT17-09	43.417840	80.920407	46.328638	72.976526	73.251649	42.307692	50.000000	7.692308	29.494216	3886	1439	1419	155	11	13	2	178.0
	3	MOT17-10	17.065192	73.608741	24.542410	52.543033	65.235470	15.789474	71.929825	12.280702	3.198424	6746	6093	3595	960	9	41	7	1380.0
	4	MOT17-11	21.184824	83.383964	22.742688	66.267486	60.357143	28.000000	38.666667	33.333333	10.173795	6253	3183	4107	147	21	29	25	228.0
	5	COMBINED	18.996949	76.968087	23.386945	53.199744	64.086392	20.396601	58.640227	20.963173	6.744030	28248	24850	15830	2331	72	207	74	3487.0

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	11022	18581	322	62
	1	MOT17-05	7050	6917	420	133
	2	MOT17-09	5305	5325	234	26
	3	MOT17-10	10341	12839	508	57
	4	MOT17-11	10360	9436	649	75
	5	COMBINED	44078	53098	2133	353



Soglie: 0.5, 0.3

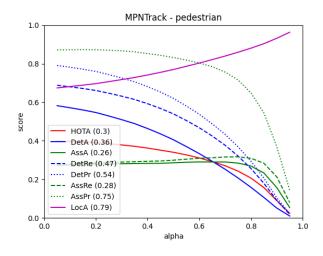
Out[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	18.616059	27.147179	14.055431	32.750773	52.410826	14.646886	69.843279	76.020006	20.695546	24.934627	62.010945	15.462198
	1	MOT17-05	35.399540	39.029244	32.749886	54.214255	50.992657	35.932385	71.713704	77.541868	41.960186	50.565105	67.173244	33.966221
	2	MOT17-09	38.215180	49.528483	30.019203	63.719298	62.567815	32.082482	77.659925	82.337270	43.568635	48.688540	75.151990	36.590407
	3	MOT17-10	20.871853	36.670397	12.803525	46.395235	53.809252	13.838983	68.412154	75.872312	23.765763	28.976367	64.316275	18.636520
	4	MOT17-11	42.663683	42.268888	43.634433	61.258116	53.780385	46.455534	83.085232	83.206807	51.566959	54.517046	73.666637	40.160874
	5	COMBINED	29.937389	36.185715	26.083443	47.017729	54.030805	28.049786	74.726302	78.671972	34.448604	39.821209	67.425382	26.849602

In []: print_clear_metrics(data_path)

]:	seq	MOTA	MOTP	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	MT	PT	ML	Frag
	MOT17-02	10.882084	73.314478	15.580432	39.034498	62.466626	12.903226	48.387097	38.709677	0.465524	7253	11328	4358	873	8	30	24	1160.0
	MOT17-05	20.529131	74.677074	26.051757	66.184762	62.251836	27.067669	62.406015	10.526316	3.769213	4578	2339	2776	382	36	83	14	342.0
:	MOT17-09	42.610329	80.750624	46.103286	73.971831	72.635073	46.153846	46.153846	7.692308	28.371213	3939	1386	1484	186	12	12	2	152.0
:	MOT17-10	16.808163	73.199792	25.640626	55.931147	64.869015	19.298246	70.175439	10.526316	1.818499	7181	5658	3889	1134	11	40	6	1180.0
	MOT17-11	18.588385	83.176332	20.368800	67.136499	58.941198	32.000000	34.666667	33.333333	7.293563	6335	3101	4413	168	24	26	25	188.0
	COMBINED	18.123093	76.632795	23.289013	55.154620	63.381379	25.779037	54.107649	20.113314	5.235000	29286	23812	16920	2743	91	191	71	3022.0

In []: print_count_metrics(data_path)

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	11611	18581	1005	62
	1	MOT17-05	7354	6917	1108	133
	2	MOT17-09	5423	5325	440	26
	3	MOT17-10	11070	12839	1701	57
	4	MOT17-11	10748	9436	1482	75
	5	COMBINED	46206	53098	5736	353



Soglie: 0.5, 0.4

In []: data_path = conf06 + '0504,	<pre>/' + 'pedestrian_detailed.csv'</pre>		
<pre>In []: print_hota_metrics(data_pa</pre>	th)		
Out[]: seq HOTAAUC D	etAAUC AssAAUC DetReAUC DetPrAUC As	ssReAUC AssPrAUC LocAAUC OWT	TAAUC HOTA(0) LocA(0) HOTALocA(0)

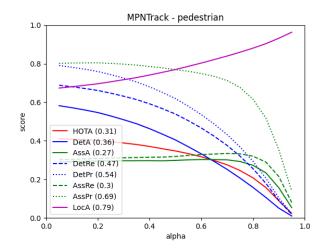
]:	seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	MOT17-02	20.055888	27.146384	16.181802	32.754455	52.412205	17.151944	63.963708	76.035730	22.287077	27.027096	62.072148	16.776299
	MOT17-05	36.111037	38.938727	34.098285	54.145013	50.886013	39.294964	64.704192	77.502735	42.813603	51.984039	67.005047	34.831930
	MOT17-09	38.767287	49.370733	30.965184	63.565110	62.416414	33.337989	73.413084	82.249776	44.209609	49.613063	74.940722	37.180387
	MOT17-10	21.801571	36.568318	13.930031	46.293161	53.666627	15.101539	62.108564	75.799215	24.820385	30.559858	64.141677	19.601605
	4 MOT17-11	42.731385	42.261256	43.722043	61.258116	53.775382	47.222166	80.065921	83.222214	51.639837	55.131188	73.674499	40.617627
	5 COMBINED	30.609715	36.133043	27.208841	46.969853	53.960606	29.791295	69.460428	78.645631	35.217343	41.061314	67.349572	27.654619

In []: print_clear_metrics(data_path)

Out[

]:	se	q MOTA	MOTP	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	MT	PT	ML	Frag
	MOT17-	2 11.382595	73.293390	15.618105	39.056025	62.495694	12.903226	48.387097	38.709677	0.952055	7257	11324	4355	787	8	30	24	1163.0
	MOT17-	5 21.006217	74.672787	26.051757	66.228134	62.241848	27.067669	62.406015	10.526316	4.232476	4581	2336	2779	349	36	83	14	342.0
	2 MOT17-	9 42.873239	80.750624	46.103286	73.971831	72.635073	46.153846	46.153846	7.692308	28.634123	3939	1386	1484	172	12	12	2	152.0
	MOT17-	0 17.672716	73.206764	25.570527	55.915570	64.821670	19.298246	70.175439	10.526316	2.691125	7179	5660	3896	1014	11	40	6	1178.0
	4 MOT17-	1 18.694362	83.177933	20.400593	67.157694	58.954321	32.000000	34.666667	33.333333	7.397049	6337	3099	4412	161	24	26	25	188.0
	COMBINE	D 18.614637	76.628983	23.290896	55.167803	63.378697	25.779037	54.107649	20.113314	5.721360	29293	23805	16926	2483	91	191	71	3023.0

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	11612	18581	586	62
	1	MOT17-05	7360	6917	787	133
	2	MOT17-09	5423	5325	335	26
	3	MOT17-10	11075	12839	968	57
	4	MOT17-11	10749	9436	1068	75
	5	COMBINED	46219	53098	3744	353



Soglie: 0.5, 0.5

In []: data_path = conf06 + '0505/' + 'pedestrian_detailed.csv'

In []: print_hota_metrics(data_path)

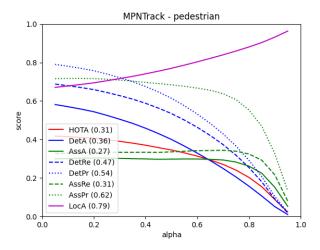
Out[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	19.498576	26.897027	15.241737	32.514821	52.024274	17.143503	54.961078	75.942658	21.665692	27.301896	61.613905	16.821764
	1	MOT17-05	35.615129	38.661058	33.291221	53.856631	50.608112	42.261670	54.916515	77.405552	42.235077	52.261618	66.725379	34.871763
	2	MOT17-09	37.953086	48.634667	30.077487	62.937485	61.811528	34.357011	64.777395	82.147301	43.377338	49.686244	74.208790	36.871560
	3	MOT17-10	22.833487	36.437190	15.183573	46.179199	53.549019	16.865218	55.408653	75.808278	25.984561	32.389348	64.077449	20.754268
	4	MOT17-11	42.998787	42.177498	44.285914	61.177796	53.704873	49.093231	75.723078	83.225781	51.962510	55.946998	73.627008	41.192100
	5	COMBINED	30.568815	35.895446	27.180815	46.743658	53.703069	31.264833	62.034772	78.599008	35.180670	41.723386	67.070462	27.984067

In []: print_clear_metrics(data_path)

Out[

]:		seq	MOTA	MOTP	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	MT	PT	ML	Frag
	0 1	MOT17-02	11.657069	73.283952	15.720360	39.109843	62.576423	12.903226	48.387097	38.709677	1.208465	7267	11314	4346	755	8	30	24	1162.0
	1 1	MOT17-05	21.598959	74.643223	26.239699	66.329334	62.328488	27.819549	61.654135	10.526316	4.779978	4588	2329	2773	321	37	82	14	345.0
	2 1	MOT17-09	43.098592	80.750677	46.084507	73.953052	72.630026	46.153846	46.153846	7.692308	28.863130	3938	1387	1484	159	12	12	2	151.0
	3 1	MOT17-10	18.513903	73.178525	25.609471	55.923359	64.848266	19.298246	70.175439	10.526316	3.514433	7180	5659	3892	911	11	40	6	1181.0
	4 1	MOT17-11	18.673167	83.190525	20.294616	67.104705	58.907805	32.000000	34.666667	33.333333	7.393218	6332	3104	4417	153	24	26	25	188.0
	5 C	OMBINED	19.010132	76.614843	23.339862	55.190403	63.407404	26.062323	53.824363	20.113314	6.103770	29305	23793	16912	2299	92	190	71	3027.0

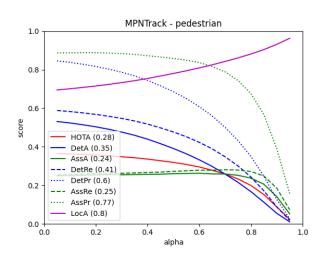
ut[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	11613	18581	327	62
	1	MOT17-05	7361	6917	425	133
	2	MOT17-09	5422	5325	223	26
	3	MOT17-10	11072	12839	513	57
	4	MOT17-11	10749	9436	662	75
	5	COMBINED	46217	53098	2150	353



Confidence: 0.7

Soglia: 0.3, 0.3 In []: data_path = conf07 + '0303/' + 'pedestrian_detailed.csv' In []: print_hota_metrics(data_path) seq HOTA_AUC DetA_AUC AssA_AUC DetRe_AUC DetPe_AUC AssRe_AUC AssPe_AUC LocA_AUC OWTA_AUC HOTA(0) LocA(0) HOTALocA(0) **0** MOT17-02 18.320561 24.189055 15.124112 27.488464 57.667738 15.732384 71.955721 77.341077 19.717850 23.236497 65.029627 **1** MOT17-05 32.930589 37.653658 29.211684 48.022797 55.150869 32.452777 70.782182 77.644118 37.355345 47.475685 67.078046 31.845762 2 MOT17-09 36.687197 50.178678 27.219889 60.315295 67.773570 29.310987 78.249745 82.837163 40,401025 46,342444 76,464068 35.435318 **3** MOT17-10 19.087700 11.990453 38.057973 12.914239 76.610150 20.834332 25.783829 66.004754 32.598226 58.715010 72.759783 4 MOT17-11 39.170890 44.658398 34.773047 58.206533 61.121394 36.641141 84.947851 84.014624 44.884201 48.968450 75.541338 36.991422 **5** COMBINED 27.940463 34.518964 23.570986 41.470092 59.630594 25.257892 76.935813 79.630282 30.855596 36.372156 69.493470 25.276273 In []: print_clear_metrics(data_path) Out[]: seq MOTA MOTP MODA CLR_Re CLR_Pr MLR SMOTA CLR_TP CLR_FN CLR_FP IDSW MT PT ML **0** MOT17-02 13.470750 74.874849 17.604004 32.635488 68.465620 9.677419 37.096774 53.225806 5.271034 12517 2793 768 6 23 33 1391.0 6064 **1** MOT17-05 22.726616 74.868678 30.172040 58.623681 67.325253 8.270677 78.947368 12.781955 7.993710 4055 515 11 105 17 622.0 **2** MOT17-09 46.816901 81.244499 50.760563 69.877934 78.518675 34.615385 57.692308 7.692308 33.710945 3721 1604 1018 9 15 2 261.0 **3** MOT17-10 16.504401 74.257485 26.637589 45.727860 70.547945 8.771930 68.421053 22.807018 4.732899 5871 6968 **4** MOT17-11 30.256465 83.906084 32.471386 63.851208 67.048742 25.33333 36.00000 38.666667 19.980305 209 19 27 29 318.0 5 COMBINED 21.737165 77.768270 27.392745 48.468869 69.694262 14.164306 59.206799 26.628895 10.961697 25736

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	8857	18581	861	62
	1	MOT17-05	6023	6917	1138	133
	2	MOT17-09	4739	5325	400	26
	3	MOT17-10	8322	12839	1714	57
	4	MOT17-11	8986	9436	1361	75
	5	COMBINED	36927	53098	5474	353



Soglia: 0.3, 0.4

15.384689 64.678300

39.888268 79.250634

27.569959 71.246465

18.745607

38.295920

26,450910

76.488465 22.719383 28.584562 65.579477

45.607699 50.784218 75.409096

31.820885 38.177340 69.284320

83.980985

79.578275

In []: print_clear_metrics(data_path)

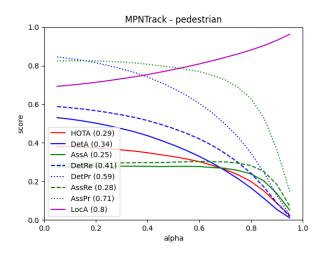
seq MOTA мотр SMOTA CLR_TP CLR_FN CLR_FP IDSW MT PT ML Out[]: MODA CLR_Re CLR_Pr MTR PTR MLR Frag **0** MOT17-02 14.186535 74.867209 17.609386 32.608579 68.494235 9.677419 38.709677 51.612903 5.991089 6059 12522 2787 24 32 1389.0 636 6 **1** MOT17-05 24.692786 74.876460 30.417811 58.782709 67.451891 8.270677 78.947368 12.781955 9.924488 2851 4066 1962 396 11 105 17 622.0 **2** MOT17-09 47.586854 81.240722 50.779343 69.896714 78.523207 34.615385 57.692308 7.692308 34.474736 3722 1603 1018 170 15 2 **3** MOT17-10 19.035750 74.242357 26.645377 45.720072 70.561366 8.771930 68.421053 22.807018 7.259338 5870 6969 2449 977 5 39 13 1678.0 **4** MOT17-11 30.839339 83.923638 32.418398 63.819415 67.022816 25.333333 34.666667 40.000000 20.579498 6022 3414 2963 149 26 30 318.0 5 COMBINED 23.036649 77.766691 27.420995 48.474519 69.719378 14.164306 59.206799 26.628895 12.259160 25739 27359 11179 2328 50 209 94 4268.0

60.974138

59.412182

In []: print_count_metrics(data_path)

Out[]: seq Dets GT_Dets IDs GT_IDs **0** MOT17-02 8846 18581 474 1 MOT17-05 6028 6917 705 133 2 MOT17-09 4740 5325 277 26 3 MOT17-10 8319 12839 885 57 4 MOT17-11 8985 9436 845 75 5 COMBINED 36918 53098 3186 353



3 MOT17-10 20.809672 32.284826 14.241367 37.767739 58.288256

4 MOT17-11 39.807301 44.500537 35.929463 58.059838

5 COMBINED 28.818672 34.343548 25.031107 41.308127

Soglia: 0.3, 0.5

In []: data_path = conf07 + '0305/' + 'pedestrian_detailed.csv'

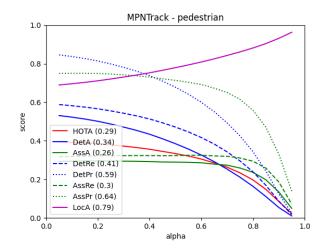
In []: print_hota_metrics(data_path)

Out[]: seq HOTA AUC DetA AUC AssA AUC DetRe AUC DetPr AUC AssRe AUC AssPr AUC LocA AUC OWTA AUC HOTA(0) LocA(0) HOTALocA(0) 27.217673 17.758924 19.778484 60.115713 21.574329 27.093280 64.499098 0 MOT17-02 20.067562 23.897274 57.118995 77.227687 17.474921 1 MOT17-05 35.142801 37.454007 33.413298 47.833332 54.933282 39.397088 59.807931 77.569341 39.886269 51.225677 66.784454 34.210788 **2** MOT17-09 36.622838 48.869729 27.747078 59.145046 32.360933 63.692482 40.440818 48.148038 74.998554 66,486673 82.229962 36 110332 **3** MOT17-10 22.388006 32.140236 16.444598 37.629181 58.081396 18.058657 58.061002 76.404620 24.440457 31.062007 65.281623 20.277782 61.067862 **4** MOT17-11 39.459304 44.593774 35.213572 58.149082 39.861766 73.463334 84.019161 45.190971 50.561905 75.522097 38.185411 **5** COMBINED 29.340411 34.148344 25.989857 41.119400 59.142343 29.631483 64.333478 79.469620 32.400594 39.456691 68.949162

In []: print_clear_metrics(data_path)

MODA CLR_Re CLR_Pr Out[]: seq MOTA MOTP MLR SMOTA CLR TP CLR FN CLR FP IDSW MT PT ML Frag MTR PTR **0** MOT17-02 14.423336 74.841819 17.684732 32.667779 68.556585 9.677419 38.709677 51.612903 6.204717 6070 2784 **1** MOT17-05 25.589128 74.859638 30.374440 58.724881 67.441474 8.270677 78.947368 12.781955 10.825480 4062 2855 1961 331 11 105 17 619.0 **2** MOT17-09 47.830986 81.230689 50.798122 69.877934 78.551826 34.615385 57.692308 7.692308 34.715379 3721 1604 1016 158 9 15 2 261.0 **3** MOT17-10 20.095023 74.234823 26.606434 45.696705 70.533782 8.771930 68.421053 22.807018 8.321186 5867 6972 2451 836 5 39 13 1672.0 4 MOT17-11 30.945316 83.927494 32.397202 63.808817 67.011686 25.333333 34.666667 40.000000 20.689640 6021 3415 2964 137 19 26 30 318.0 5 COMBINED 23.535726 77.755030 27.430412 48.478285 69.726684 14.164306 59.206799 26.628895 12.751746 25741 27357 11176 2068 50 209 94 4260.0

ut[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	8854	18581	285	62
	1	MOT17-05	6023	6917	377	133
	2	MOT17-09	4737	5325	189	26
	3	MOT17-10	8318	12839	429	57
	4	MOT17-11	8985	9436	521	75
	5	COMBINED	36917	53098	1801	353



Soglia: 0.4, 0.3

In []: data_path = conf07 + '0403/' + 'pedestrian_detailed.csv'
In []: print_hota_metrics(data_path)

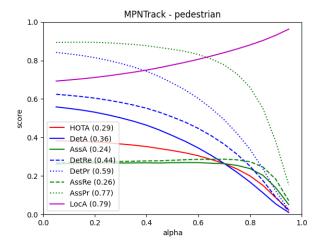
Out[]: seq HOTA_AUC DetA_AUC AssA_AUC DetRe_AUC DetPr_AUC AssRe_AUC AssPr_AUC LocA_AUC OWTA_AUC HOTA(0) LocA(0) HOTALocA(0) 15.182569 72.601494 77.025862 20.159468 24.445564 64.506483 0 MOT17-02 18.657244 25.662799 14.585160 29.410065 57.341912 15.768973 **1** MOT17-05 35.204668 39.854339 31.576157 51.472725 55.345382 35.274504 70.964860 77.690893 40.200877 50.609721 67.619595 34.222088 31.295806 2 MOT17-09 38.807328 51.682313 29.526856 62.643934 67.457826 79.345469 42.907148 49.512640 76.315901 37.786017 82.676665 **3** MOT17-10 20.769026 14.078345 71.909767 13.115123 41.460025 76.566599 35.103255 58.720934 22.806514 28.188250 66.305277 18.690298 37.081435 83.876415 45.674150 49.847289 75.077326 4 MOT17-11 39.463225 44.878363 35.145232 59.648379 59.838625 83.712922 37.424011 **5** COMBINED 29.051677 36.112462 24.326961 43.904320 26.051326 76.745137 79.391553 32.280561 38.286363 69.302207 26.533295 59.199867

In []: print_clear_metrics(data_path)

MOTA MOTP MODA CLR_Re CLR_Pr MLR SMOTA CLR_TP CLR_FN CLR_FP IDSW MT PT ML seq **0** MOT17-02 15.122975 74.460841 18.933319 35.111135 68.457503 12.903226 40.322581 46.774194 6.155887 12057 **1** MOT17-05 26.731242 74.759151 32.832153 62.917450 67.651174 16.541353 70.676692 12.781955 10.850344 2081 422 22 94 17 423.0 **2** MOT17-09 49.352113 80.878202 52.676056 72.769953 78.361982 38.461538 53.846154 7.692308 35.437189 **3** MOT17-10 20.165122 73.902636 29.340291 49.972739 70.777716 12.280702 70.175439 17.543860 7.123554 6416 6423 2649 1178 **4** MOT17-11 29.546418 83.571246 31.326833 65.504451 65.713374 28.00000 34.666667 37.33333 18.784853 6181 3255 3225 168 21 26 28 212.0 5 COMBINED 23.850239 77.345714 28.846661 51.504765 69.448183 19.263456 56.373938 24.362606 12.182202 27348 25750 12031 2653 68 199 86 3236.0

In []: print_count_metrics(data_path)

Out[]: seq Dets GT_Dets IDs GT_IDs 0 MOT17-02 9530 18581 825 1 MOT17-05 6433 6917 1043 133 2 MOT17-09 4945 5325 358 3 MOT17-10 9065 12839 1582 57 4 MOT17-11 9406 9436 1252 5 COMBINED 39379 53098 5060



Soglia: 0.4, 0.4

In []: data_path = conf07 + '0404/' + 'pedestrian_detailed.csv'

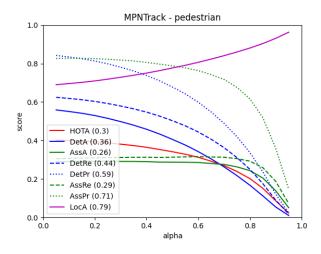
In []: print_hota_metrics(data_path)
Out[]: seq HOTA__AUC DetA_

t[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	20.055667	25.537650	16.777198	29.302428	57.114069	17.634239	68.788169	77.005691	21.668653	26.767585	64.378726	17.232631
	1	MOT17-05	36.018734	39.577660	33.271634	51.226954	55.064000	38.616836	64.491376	77.626923	41.172739	52.265779	67.294230	35.171854
	2	MOT17-09	39.815109	51.198929	31.346048	62.255498	67.025986	34.435940	73.034912	82.553287	44.084259	51.256158	75.810283	38.857438
	3	MOT17-10	22.227163	34.768427	15.030034	41.166102	58.304642	16.198884	65.192348	76.465525	24.418497	30.767917	65.804069	20.246541
	4	MOT17-11	39.930624	44.781345	35.942823	59.553557	59.749853	40.360985	77.361929	83.684223	46.196498	51.490455	74.903794	38.568304
	5	COMBINED	29.999476	35.890123	25.960932	43.707762	58.927350	28.849006	70.876963	79.334461	33.341541	40.177952	68.997985	27.721978

In []: print_clear_metrics(data_path)

Out[]:		seq	мота	мотр	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	МТ	PT	ML	Frag
	0	MOT17-02	15.634250	74.445551	18.917173	35.111135	68.435959	12.903226	40.322581	46.774194	6.661793	6524	12057	3009	610	8	25	29	1134.0
	1	MOT17-05	27.844441	74.752392	32.832153	62.931907	67.645688	16.541353	70.676692	12.781955	11.955640	4353	2564	2082	345	22	94	17	421.0
	2	MOT17-09	49.633803	80.878202	52.657277	72.769953	78.346138	38.461538	53.846154	7.692308	35.718880	3875	1450	1071	161	10	14	2	165.0
	3	MOT17-10	22.018849	73.913593	29.433757	50.019472	70.843905	12.280702	71.929825	15.789474	8.970566	6422	6417	2643	952	7	41	9	1305.0
	4	MOT17-11	29.970326	83.580009	31.422213	65.546842	65.762892	29.333333	33.333333	37.333333	19.207541	6185	3251	3220	137	22	25	28	212.0
	5	COMBINED	24.725978	77.345605	28.878677	51.525481	69.467296	19.546742	56.373938	24.079320	13.053193	27359	25739	12025	2205	69	199	85	3237.0

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	9533	18581	477	62
	1	MOT17-05	6435	6917	685	133
	2	MOT17-09	4946	5325	270	26
	3	MOT17-10	9065	12839	882	57
	4	MOT17-11	9405	9436	841	75
	5	COMBINED	39384	53098	3155	353



Soglia: 0.4, 0.5

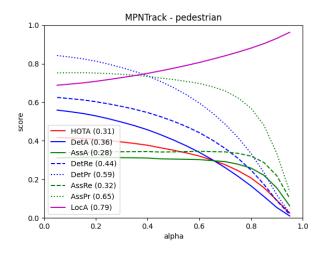
Out[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	20.296903	25.383775	17.198660	29.152020	56.814945	19.289419	59.093856	76.877879	21.931676	27.408353	64.010221	17.544147
	1	MOT17-05	36.118082	39.399060	33.588570	51.041294	54.864434	41.072226	57.764669	77.519348	41.300618	52.730755	67.066821	35.364841
	2	MOT17-09	40.261234	51.116259	32.033604	62.189276	66.968229	35.903188	68.421801	82.539508	44.568180	52.573373	75.657539	39.775720
	3	MOT17-10	23.610367	34.631163	16.938441	41.022624	58.101431	18.735770	57.657363	76.350886	25.934799	32.986867	65.556446	21.625017
	4	MOT17-11	42.220563	44.884187	40.163001	59.656188	59.840097	45.512734	75.333770	83.713033	48.847713	54.356759	75.013569	40.774945
	5	COMBINED	30.979879	35.787539	27.807487	43.607847	58.789658	31.875811	64.782033	79.271488	34.444295	41.693394	68.814763	28.691210

In []: print_clear_metrics(data_path)

]:		seq	MOTA	MOTP	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	MT	PT	ML	Frag
	0 MC	OT17-02	15.844142	74.444217	18.944083	35.127281	68.460248	12.903226	40.322581	46.774194	6.867090	6527	12054	3007	576	8	25	29	1135.0
	1 MC	OT17-05	28.437184	74.729817	32.803238	62.917450	67.630148	16.541353	70.676692	12.781955	12.537829	4352	2565	2083	302	22	94	17	425.0
	2 MC	OT17-09	49.765258	80.881231	52.638498	72.751174	78.341759	38.461538	53.846154	7.692308	35.856130	3874	1451	1071	153	10	14	2	166.0
	3 MC	OT17-10	22.821092	73.913751	29.355869	49.980528	70.788748	12.280702	70.175439	17.543860	9.783047	6417	6422	2648	839	7	40	10	1301.0
	4 MC	OT17-11	30.097499	83.582288	31.401017	65.546842	65.748910	29.333333	33.333333	37.333333	19.336207	6185	3251	3222	123	22	25	28	212.0
	5 CON	MBINED	25.106407	77.342952	28.859844	51.517948	69.453613	19.546742	56.090652	24.362606	13.433961	27355	25743	12031	1993	69	198	86	3239.0

In []: print_count_metrics(data_path)

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	9534	18581	302	62
	1	MOT17-05	6435	6917	373	133
	2	MOT17-09	4945	5325	192	26
	3	MOT17-10	9065	12839	445	57
	4	MOT17-11	9407	9436	519	75
	5	COMBINED	39386	53098	1831	353



Soglia: 0.5, 0.3

In []:	<pre>data_path = conf07 + '0503/' + 'pedestrian_detailed.csv'</pre>

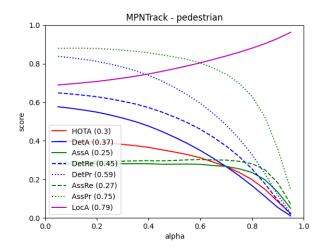
In []: print_hota_metrics(data_path)

Out[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	18.509639	26.511606	13.899187	30.547617	57.034291	14.540895	70.326964	76.779370	20.061840	24.521822	64.265137	15.758983
	1	MOT17-05	37.203291	40.891962	34.343449	53.413786	55.069781	38.788783	70.333045	77.640440	42.722362	53.772426	67.658665	36.381706
	2	MOT17-09	39.726461	51.984422	30.735594	63.391154	67.015663	32.788545	76.970898	82.530160	44.050294	51.126402	76.011812	38.862105
	3	MOT17-10	21.917501	36.764284	13.958279	43.894630	58.315724	15.000700	69.794555	76.366616	24.214572	29.922315	65.988128	19.745176
	4	MOT17-11	40.255878	44.843540	36.472778	60.550300	58.811388	40.300429	81.033312	83.493222	46.927746	51.932352	74.658456	38.771893
	5	COMBINED	29.902689	36.966174	25.101172	45.379150	58.659155	27.474271	74.581445	79.158767	33.383557	39.957694	68.975366	27.560965

In []: print_clear_metrics(data_path)

Out[]:		seq	мота	мотр	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	МТ	PT	ML	Frag
	0	MOT17-02	15.639632	74.073664	19.460739	36.510414	68.167203	14.516129	40.322581	45.161290	6.173819	6784	11797	3168	710	9	25	28	1036.0
	1	MOT17-05	28.769698	74.627262	33.873066	65.432991	67.461619	24.060150	63.909774	12.030075	12.167556	4526	2391	2183	353	32	85	16	324.0
	2	MOT17-09	49.690141	80.819545	52.751174	73.671362	77.883661	46.153846	46.153846	7.692308	35.559638	3923	1402	1114	163	12	12	2	144.0
	3	MOT17-10	22.797726	73.560763	30.812369	53.041514	70.467715	14.035088	70.175439	15.789474	8.773954	6810	6029	2854	1029	8	40	9	1100.0
	4	MOT17-11	27.871980	83.407207	29.514625	66.235693	64.333505	32.000000	33.333333	34.666667	16.881628	6250	3186	3465	155	24	25	26	175.0
	5	COMBINED	24.669479	77.035933	29.208256	53.284493	68.877961	24.079320	52.974504	22.946176	12.433192	28293	24805	12784	2410	85	187	81	2779.0

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	9952	18581	799	62
	1	MOT17-05	6709	6917	941	133
	2	MOT17-09	5037	5325	332	26
	3	MOT17-10	9664	12839	1408	57
	4	MOT17-11	9715	9436	1115	75
	5	COMBINED	41077	53098	4595	353



Soglia: 0.5, 0.4

In []: data_path = conf07 + '0504/' + 'pedestrian_detailed.csv'

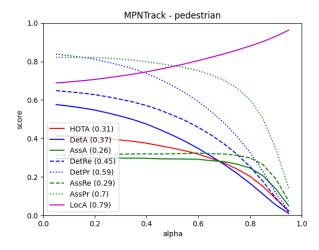
In []: print_hota_metrics(data_path)

Out[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	20.341810	26.383310	16.911603	30.428650	56.806464	18.225601	66.367874	76.716187	22.059225	27.242599	64.080612	17.457224
	1	MOT17-05	36.837649	40.787126	33.733613	53.333891	54.979214	39.860446	63.544853	77.652944	42.318365	53.624839	67.571331	36.235018
	2	MOT17-09	40.552277	51.672783	32.210293	63.138127	66.748169	35.177121	71.854096	82.459198	45.009068	52.387944	75.705288	39.660444
	3	MOT17-10	23.368682	36.676611	15.772224	43.817972	58.201836	17.030128	63.424507	76.326216	25.807112	32.247588	65.822016	21.226013
	4	MOT17-11	40.593236	44.791776	37.095073	60.500658	58.763171	41.161765	79.218539	83.479566	47.318292	52.717141	74.578089	39.315437
	5	COMBINED	30.682762	36.848425	26.469510	45.274378	58.518024	29.480565	69.974922	79.124009	34.263110	41.281105	68.819135	28.409300

In []: print_clear_metrics(data_path)

Out[]:		seq	мота	мотр	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	мт	PT	ML	Frag
	0	MOT17-02	16.027124	74.058412	19.466121	36.515796	68.170401	14.516129	40.322581	45.161290	6.554347	6785	11796	3168	639	9	25	28	1037.0
	1	MOT17-05	29.275698	74.627092	33.945352	65.476363	67.496274	24.060150	63.909774	12.030075	12.662440	4529	2388	2181	323	32	85	16	324.0
	2	MOT17-09	49.896714	80.819545	52.751174	73.671362	77.883661	46.153846	46.153846	7.692308	35.766211	3923	1402	1114	152	12	12	2	144.0
	3	MOT17-10	24.004985	73.554623	30.874679	53.080458	70.504862	14.035088	70.175439	15.789474	9.967658	6815	6024	2851	882	8	40	9	1101.0
	4	MOT17-11	28.073336	83.398067	29.535820	66.246291	64.343798	33.333333	32.000000	34.666667	17.075171	6251	3185	3464	138	25	24	26	175.0
	5	COMBINED	25.219406	77.028003	29.238389	53.303326	68.895597	24.362606	52.691218	22.946176	12.974567	28303	24795	12778	2134	86	186	81	2781.0

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	9953	18581	485	62
	1	MOT17-05	6710	6917	665	133
	2	MOT17-09	5037	5325	267	26
	3	MOT17-10	9666	12839	818	57
	4	MOT17-11	9715	9436	809	75
	5	COMBINED	41081	53098	3044	353



Soglia: 0.5, 0.5

In []: data_path = conf07 + '0505/' + 'pedestrian_detailed.csv'

In []: print_hota_metrics(data_path)

Out[]:		seq	HOTAAUC	DetAAUC	AssAAUC	DetReAUC	DetPrAUC	AssReAUC	AssPrAUC	LocAAUC	OWTAAUC	HOTA(0)	LocA(0)	HOTALocA(0)
	0	MOT17-02	19.033069	26.322735	14.636892	30.375114	56.695128	16.635195	55.636670	76.693402	20.626183	25.969882	63.980427	16.615642
	1	MOT17-05	36.423777	40.662693	33.035464	53.215191	54.816005	41.894836	56.084586	77.558559	41.848751	53.635756	67.392615	36.146539
	2	MOT17-09	40.062818	51.561245	31.492131	63.045219	66.649948	35.580004	64.949656	82.420411	44.476513	52.164976	75.542908	39.406940
	3	MOT17-10	23.611935	36.474254	16.116036	43.647439	57.957335	17.873582	56.309767	76.271721	26.082613	33.082072	65.524774	21.676953
	4	MOT17-11	43.183118	44.759895	42.058231	60.475558	58.738792	47.705035	74.593073	83.492000	50.356605	56.308044	74.535680	41.969584
	-	COMBINED	31 010722	36 745664	27 157227	AE 105160	50 300506	21 512152	62 570031	70 001630	34 645475	42.053300	69 663252	20 075225

In []: print_clear_metrics(data_path)

Out[]:		seq	мота	мотр	MODA	CLR_Re	CLR_Pr	MTR	PTR	MLR	sMOTA	CLR_TP	CLR_FN	CLR_FP	IDSW	мт	PT	ML	Frag
	0	MOT17-02	16.306980	74.072168	19.444594	36.510414	68.146660	14.516129	40.322581	45.161290	6.840622	6784	11797	3171	583	9	25	28	1036.0
	1	MOT17-05	29.969640	74.626506	34.104381	65.592020	67.565153	24.060150	63.909774	12.030075	13.326653	4537	2380	2178	286	32	85	16	325.0
	2	MOT17-09	49.971831	80.822522	52.713615	73.652582	77.863808	46.153846	46.153846	7.692308	35.847123	3922	1403	1115	146	12	12	2	145.0
	3	MOT17-10	24.799439	73.586369	30.866890	53.088247	70.493329	14.035088	73.684211	12.280702	10.776906	6816	6023	2853	779	8	42	7	1099.0
	4	MOT17-11	28.285290	83.343904	29.684188	66.320475	64.415852	33.333333	32.000000	34.666667	17.238888	6258	3178	3457	132	25	24	26	176.0
	5	COMBINED	25.645034	77.028033	29.272289	53.329692	68.912901	24.362606	53.257790	22.379603	13.394155	28317	24781	12774	1926	86	188	79	2781.0

Out[]:		seq	Dets	GT_Dets	IDs	GT_IDs
	0	MOT17-02	9955	18581	285	62
	1	MOT17-05	6715	6917	369	133
	2	MOT17-09	5037	5325	195	26
	3	MOT17-10	9669	12839	439	57
	4	MOT17-11	9715	9436	509	75
	5	COMBINED	41091	53098	1797	353

