Metriche di test

In [ ]:
```
import pandas as pd
import numpy as np
```

In [ ]:
```
path = 'Tabelle/'
test = path + 'test/'
```

In [ ]:
```
hota_metrics_col = ['seq', 'HOTA___AUC', 'DetA___AUC', 'AssA___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
```

I migliori valori sono i seguenti:

- Confidence: 0.7
- Soglia matching: 0.5
- Soglia reidentificazione: 0.5

In [ ]:
```
data_path = test + '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)
0	MOT17-04	28.846656	30.420216	27.767104	32.521750	70.719563	29.372178	71.449601	79.374273	29.929694	38.003742	72.531333	27.564621
1	MOT17-13	16.840114	23.658325	13.067781	27.755676	49.927623	15.147166	39.955325	72.746345	18.432906	24.984915	58.821172	14.696420
2	COMBINED	26.721655	28.926519	25.304330	31.584460	65.971647	27.010160	66.212189	78.136996	28.057832	35.698164	69.703816	24.882983

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	MOT17-04	33.250626	76.353201	34.266249	40.126585	87.256516	7.228916	54.216867	38.554217	23.761973	19083	28474	2787	483	6	45	32	2171.0
1	MOT17-13	5.394262	68.975416	13.142072	34.366947	61.820148	5.454545	54.545455	40.000000	-5.267940	4001	7641	2471	902	6	60	44	1027.0
2	COMBINED	27.772429	75.074458	30.111995	38.993902	81.448028	6.217617	54.404145	39.378238	18.052987	23084	36115	5258	1385	12	105	76	3198.0

In [ ]:
```
print_count_metrics(data_path)
```

Out[ ]:

	seq	Dets	GT_Dets	IDs	GT_IDs
0	MOT17-04	21870	47557	260	83
1	MOT17-13	6472	11642	379	110
2	COMBINED	28342	59199	639	193