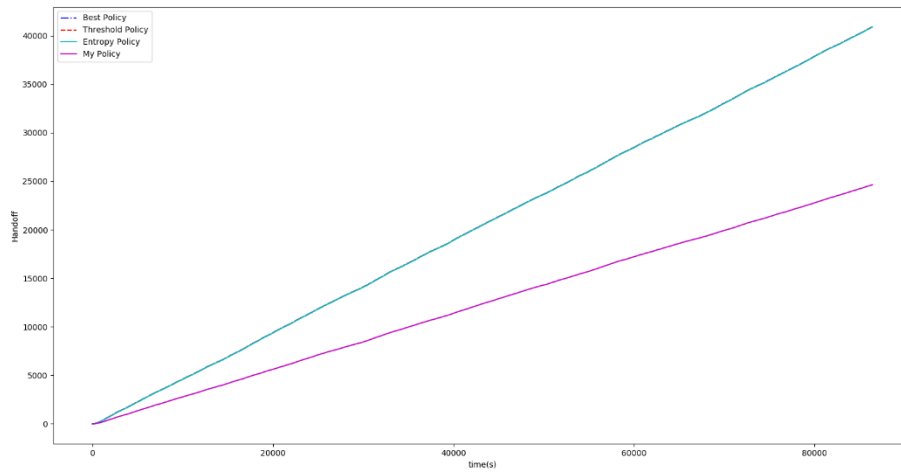


# 無線通訊網路 Project

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Handoff 圖表:



Average power:

```
Average Power:
Policy1: -0.6582239537417902
Policy2: -0.6582239537417902
Policy3: -0.659558837501286
Policy4: -0.6728079141602572
```

Source code:

```
# policy 1
if BS_max != policy1 and P_new > P_old[0]:
    handoff[0] = handoff[0] + 1
    policy1 = BS_max
    total_power[0] += P_new
else:
    total_power[0] += P_old[0]

# policy 2
if BS_max != policy2 and P_new > P_old[1] and P_old[1] < T:
    handoff[1] = handoff[1] + 1
    policy2 = BS_max
    total_power[1] += P_new
else:
    total_power[1] += P_old[1]

# policy 3
if BS_max != policy3 and P_new > P_old[2] + E:
    handoff[2] = handoff[2] + 1
    policy3 = BS_max
    total_power[2] += P_new
else:
    total_power[2] += P_old[2]

# policy 4
if BS_max != policy4 and P_new > P_old[3] and P_old[1] < Pmin:
    handoff[3] = handoff[3] + 1
    policy4 = BS_max
    total_power[3] += P_new
else:
    total_power[3] += P_old[3]
```

My policy:

即  $P_{new} > P_{old}$  &  $P_{old} < P_{min}$  。

只要原本那座 BS 提供的 power 沒有低於  $P_{min}(-125\text{dbm})$ ，則不換。

優點:

可大幅減少 handoff 的次數。

缺點:

會造成 average power 降低。