

# IMBandits

## Current Result

### Parameter

save\_address = './SimulationResults' configure\_address = './configure' graph30\_edgefile\_address = './datasets/graph30/graph30.txt' NetHEPT\_edgefile\_address = './datasets/NetHEPT/cit-HepTh.txt' Flixster\_edgefile\_address = './datasets/Flixster-dataset/data/edges.csv' Epinions\_edgefile\_address = './datasets/Epinions/soc-Epinions1.txt' Flickr\_edgefile\_address = './datasets/Flickr/flickrEdges.txt'

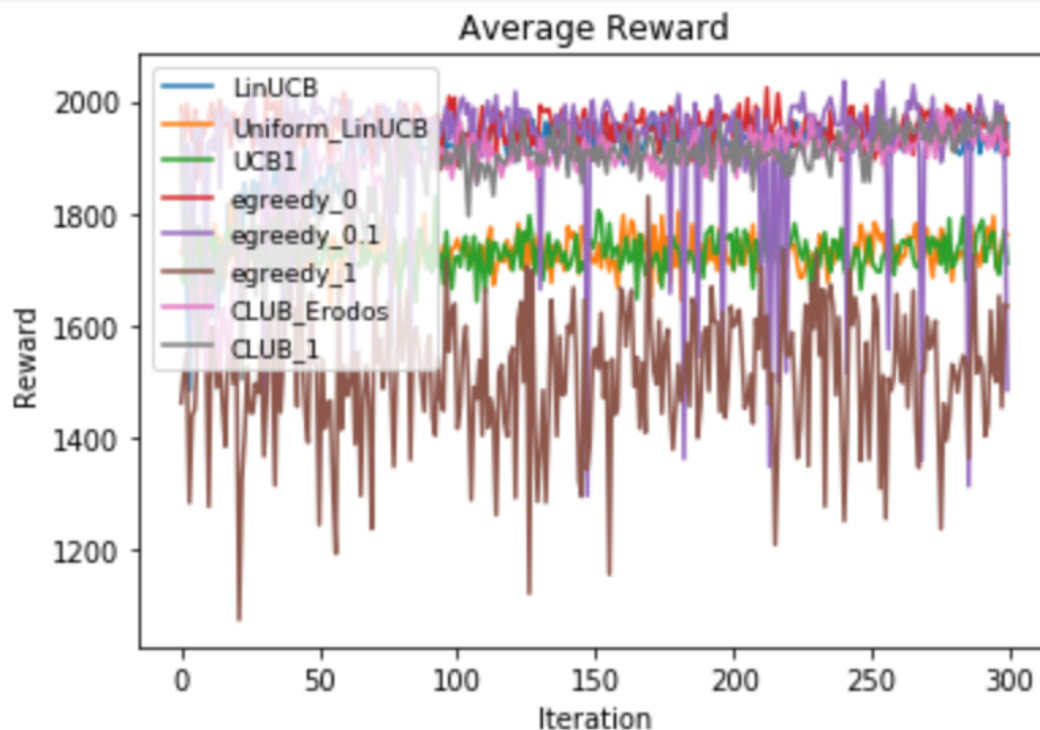
graph\_address = './datasets/Flickr/Small\_Final\_SubG.G' prob\_address = './datasets/Flickr/Small\_Final\_Edge\_P\_Uniform\_dim4' feature\_address = './datasets/Flickr/Small\_Final\_Normalized\_edgeFeatures\_uniform\_dim4.dic'

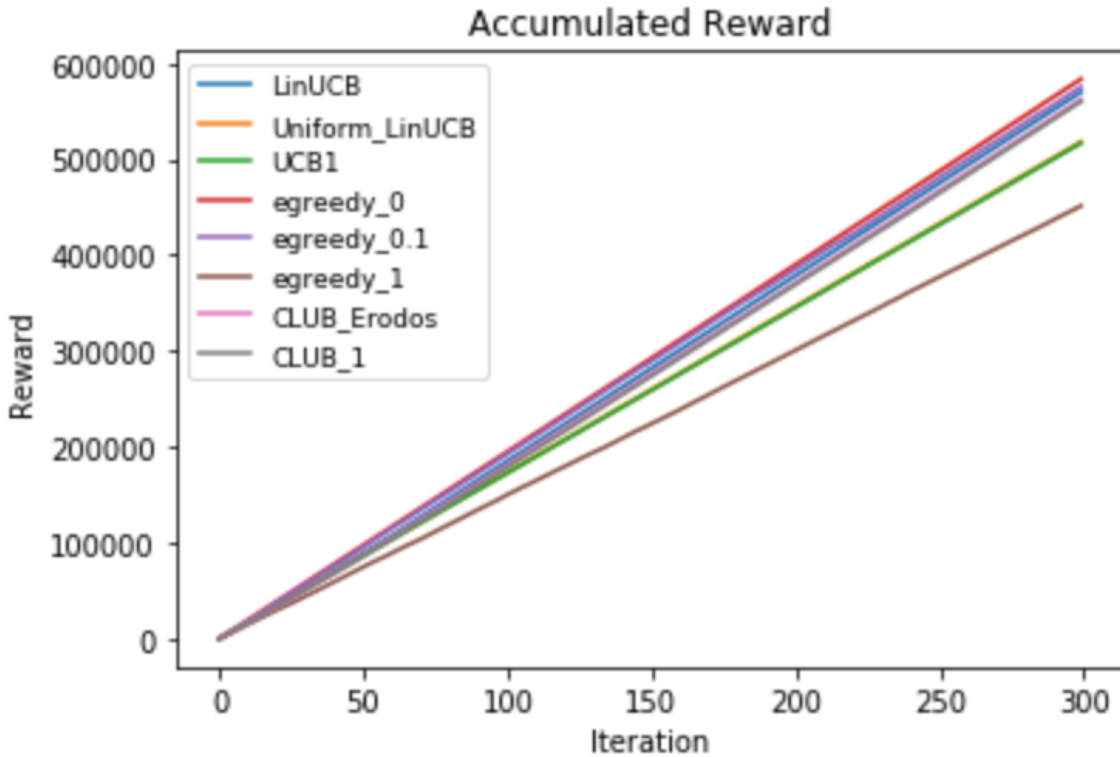
dataset = 'Flickr' #Choose from 'default', 'NetHEPT', 'Flickr' FeatureScaling = 1.0 batchSize = 1 alpha = 0.1 alpha\_2 = 0.1 lambda\_ = 0.3 gamma = 0.1 dimension = 4 seed\_size = 40 iterations = 300

oracle = degreeDiscountIAC2

### Result

average reward for oracle: 1954.6811111111112 LinUCB: 1907.56 Uniform\_LinUCB: 1733.87 UCB1: 1729.36 egreedy\_0: 1952.58 egreedy\_0.1: 1924.06 egreedy\_1: 1510.79 CLUB\_Erodos: 1881.93 CLUB\_1: 1874.47





## Parameter

```
save_address = './SimulationResults' configure_address = './configure' graph30_edgefile_address =
'./datasets/graph30/graph30.txt' NetHEPT_edgefile_address = './datasets/NetHEPT/cit-HepTh.txt'
Flixster_edgefile_address = './datasets/Flixster-dataset/data/edges.csv' Epinions_edgefile_address =
'./datasets/Epinions/soc-Epinions1.txt' Flickr_edgefile_address = './datasets/Flickr/flickrEdges.txt'
```

```
graph_address = './datasets/Flickr/Small_Final_SubG.G' prob_address =
'./datasets/Flickr/Small_Final_Edge_P_Uniform_dim4' feature_address =
'./datasets/Flickr/Small_Final_Normalized_edgeFeatures_uniform_dim4.dic'
```

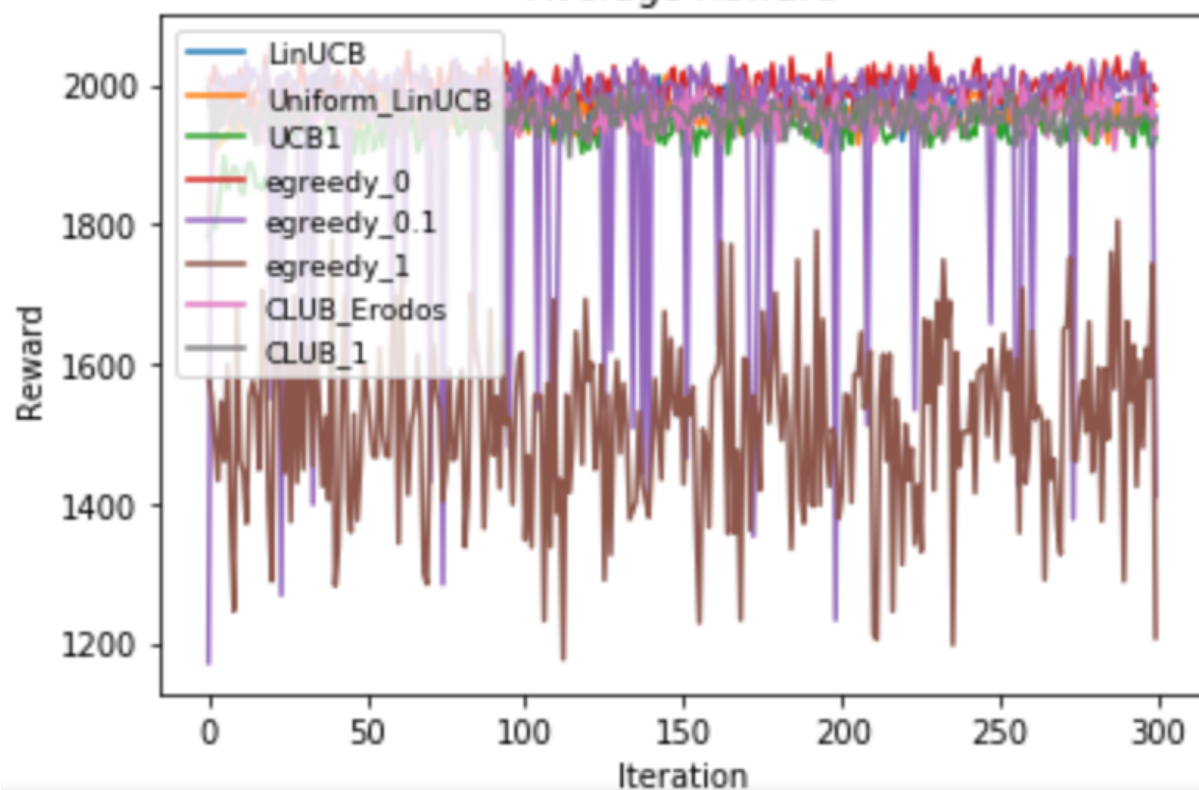
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dataset = 'Flickr' #Choose from 'default', 'NetHEPT', 'Flickr' FeatureScaling = 1.0 batchSize = 1 alpha = 0.1
alpha_2 = 0.1 lambda_ = 0.3 gamma = 0.1 dimension = 4 seed_size = 40 iterations = 300
```

```
oracle = degreeDiscountIAC
```

## Result

```
average reward for oracle: 2013.1888888888889 LinUCB: 1967.69 Uniform_LinUCB: 1958.30 UCB1: 1934.53
egreedy_0: 1997.54 egreedy_0.1: 1934.25 egreedy_1: 1512.52 CLUB_Erodos: 1957.71 CLUB_1: 1956.60
```

Average Reward



Accumulated Reward

