TODIM Sensitivity Analysis Weight Shuffle

June 24, 2021

[1]:
```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
```

[2]:
```
%matplotlib inline
plt.rcParams["figure.dpi"] = 1000
plt.rcParams['font.family'] = 'serif'
plt.rcParams['font.size'] = '8'
```

[3]:
```
ranking_data = pd.read_csv('weight_rankings.csv')
ranking_data
```

[3]:

	S1	S2	S3	S4	S5	S6
0	3	6	4	1	5	2
1	4	6	3	1	5	2
2	3	6	4	1	5	2
3	5	6	3	1	4	2
4	4	6	3	1	5	2
..	..	..	..	..	..	..
995	5	6	3	1	4	2
996	5	6	3	1	4	2
997	3	6	4	1	5	2
998	5	6	3	1	4	2
999	4	6	3	1	5	2

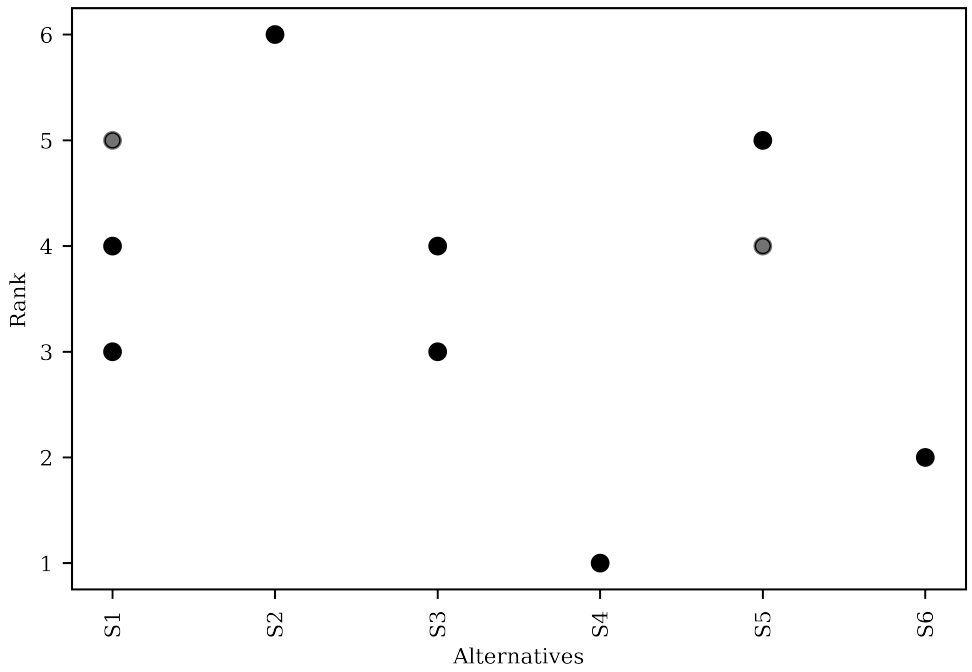
[1000 rows x 6 columns]

[4]:
```
x = ranking_data.columns

plt.xticks(rotation='vertical')
plt.yticks(ticks=range(1, len(x) + 1))

plt.xlabel('Alternatives')
plt.ylabel('Rank')

for _, row in ranking_data.iterrows():
    plt.scatter(x=x, y=list(row), alpha=0.002, c='black')
```


Rank
6
5
4
3
2
1
S1
S2
S3
S4
S5
S6
Alternatives

[ ]: