Coach Ranking Model

Akilesh Potti, Dominick Twitty, Wenhai Yang

February 8, 2014

Abstract

Todo

Disclaimer: For legal and moral reasons, all geographical locations and company names used in this paper are entirely fictional unless otherwise stated. However, for the sake of accuracy, real world data was used to tune our model.
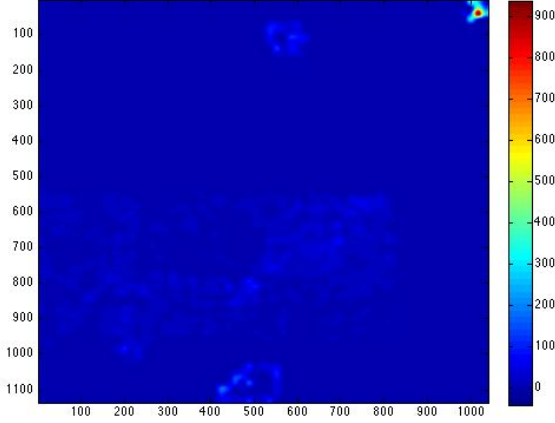
1 The Problem

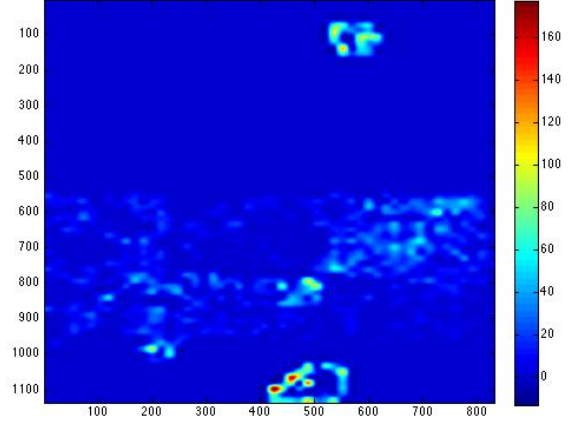1. Todo

2 Model assumptions

1. Todo

3 Models

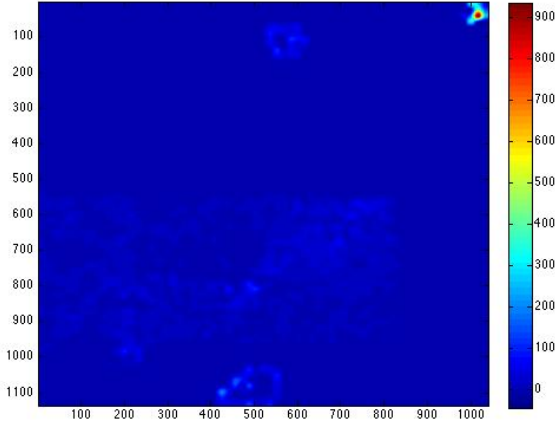# 4 Results, Validation, and Robustness
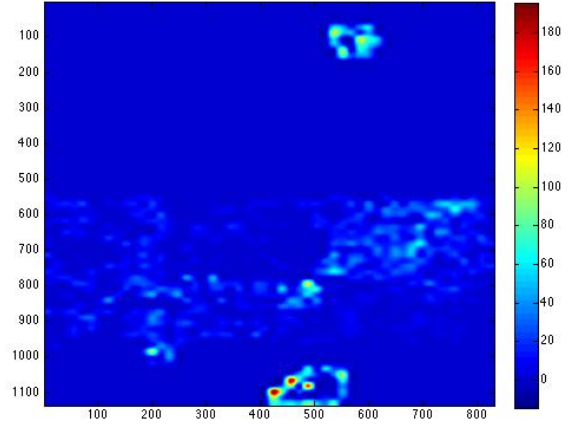
(a) Distribution of Request Source with Airport

(b) Distribution of Request Source without Airport

(c) Distribution of Request Destination with Airport

(d) Distribution of Request Destination without Airport

$$p_{unreg} = k \ln(t_{reg})$$

$$\frac{p_{unreg'}}{p_{unreg}} = \frac{\ln_{t_{reg}}}{\ln t_{reg'}}$$

Number of Cabs	14	15	16	17	18	19	20	21
Uni Ind/Conglo	1.5720	1.3773	1.2880	1.2071	1.1932	1.2113	1.1201	1.0672
Prop Ind/Conglo	1.6876	1.4040	1.2459	1.1248	1.2558	1.1498	1.1033	1.1022
Disprop Ind/Conglo	2.1519	2.0706	2.0489	1.9399	1.8725	1.8174	1.6990	1.3905

5 Strengths and Weaknesses

5.1 Strengths

- Todo

5.2 Weaknesses

- Todo

6 Conclusions

Todo

7 Future work

- Todo

8   Bibliography

References

[1] OpenStreetMaps API, `http://www.openstreetmap.org/#map=14/42.4427/-76.4984`

[2] Github Gist by user aflaxman, `https://gist.github.com/aflaxman/287370/`

[3] A stochastic optimization model for real-time ambulance redeployment, `http://www.sciencedirect.com/science/article/pii/S0305054813000385`

[4] Ithaca Demographics, `http://www.ci.ithaca.ny.us/maps/index.cfm`

[5] Cornell Demographics, `http://www.cornell.edu/about/facts/stats.cfm`

[6] Ithaca College, `http://www.ithaca.edu/admission/facts/`

9 Code