

Final Project Proposal - Group 1, course CSDA1000SUMA18

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Abstract

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Abstract

What are the effect of the different airlines performance on airport gate utilization.

Introduction

Proposed plan

Airline performance <U+0096> explain what performance means: Performance of Gate/ airline? - Number of flights - Number of travellers - Number of delays coming in / going out - Number of Cancellation

Potential Risks

What are the threats to validity of the model? Look for Research papers of capacity or optimizations at airport levels

Participants

Material

Procedure

Data analysis

We used R (Version 3.5.0; R Core Team, 2015) and the R-packages *afex* (Version 0.20.2; Singmann, Bolker, Westfall, & Aust, 2016), *bindrcpp* (Version 0.2.2; Müller, 2017), *boot* (Version 1.3.20; Davison & Hinkley, 1997), *broom* (Version 0.4.4; Robinson, 2016), *dplyr* (Version 0.7.5; Wickham & Francois, 2016), *estimability* (Version 1.3; Lenth, 2015), *knitr* (Version 1.20; Xie, 2015), *lme4* (Version 1.1.17; Bates, Mächler, Bolker, & Walker, 2015), *lsmeans* (Version 2.27.62; Lenth, 2016), *Matrix* (Version 1.2.14; Bates & Maechler, 2016), *MBESS* (Version 4.4.3; Kelley, 2016), *papaja* (Version 0.1.0.9709; Aust & Barth, 2015),

reshape2 (Version 1.4.3; Wickham, 2007), *rmarkdown* (Version 1.9; Allaire et al., 2016), and *testthat* (Version 2.0.0; Wickham, 2011) for all our analyses.

Cost/benefit analysis

(Regression model)

Conclusion

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