

Project Proposal for Connor Smith and Ognyan Moore

Citation information for the paper you want to reproduce

Quantifying crowd size with mobile phone and *Twitter* data

Federico Botta, Helen Susannah Moat, Tobias Preis R. Soc. open sci. 2015 2 150162; DOI: 10.1098/rsos.150162. Published 27 May 2015

Link to the paper and repository

Quantifying crowd size with mobile phone and Twitter data

Data Repository

List of Descriptive Statistics

- Call and SMS Activity
- Internet Activity
- Twitter Activity
- Attendee Counts

List of the Analysis/Results

- Linear Relationships (ordinary least squares regression)
- P-Values for goodness of fit
- Spearman's nonparametric rank correlation

Propose at least one additional plot

- Variance against different days/same time for usage stats (compare 2 am across different days)
 - Reanalyze estimations using mean based on time of day/day of week?
- Attempt to find a standard “baseline” for the area sans large event (possibly using census data for the town?)