

# Vandals on the move at DinoFun World

Heike Hofmann, *Member, IEEE*, Dianne Cook, Andee Kaplan, Eric Hare and Vianey Leos-Barajas

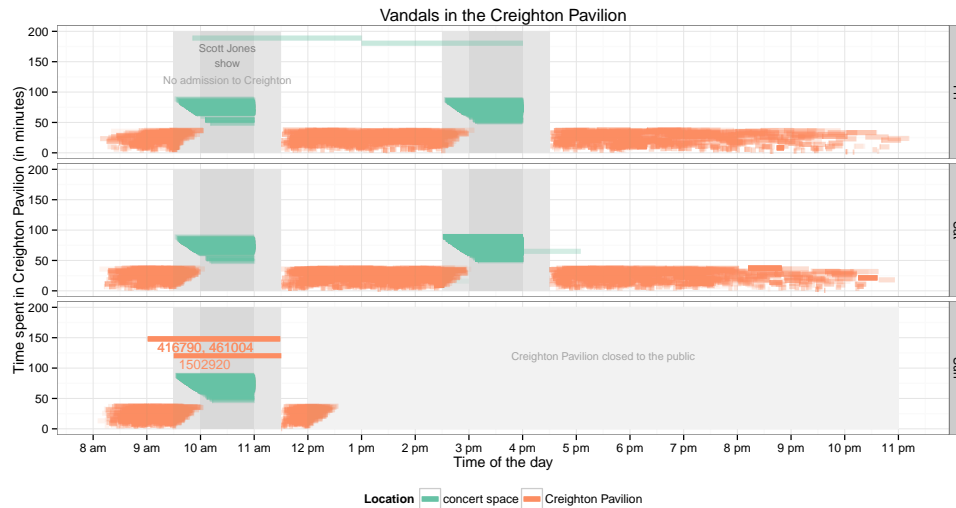


Fig. 1. On Sunday, June 8 2014 a trio of suspects (marked in orange) checks in to Creighton Pavilion at 9:01 am and stays there for more than 2 hour, in particular during the time that the Pavilion is closed to the public. What are they doing there? Our working theory is that the vandalism takes place during this time. Two of the suspects check into the pavilion at 11:30 again and leave within seconds, only to check back into the pavilion at 11:46.

**Abstract**—Here goes the abstract.

**Index Terms**—Keywords that describe your work. Will show as 'Index Terms' in journal please capitalize first letter and insert punctuation after last keyword

## 1 DATA MANIPULATION

here we need to talk about a few things: construction of park.csv and time spent in attractions.

## 2 RESULTS

Overall attendance at DinoFun World is characterized in figure 2. The number of moves park goers make is charted for each minute of the day along a horizontal time axis. We can learn a couple of things from this plot:

(1) the Scott Jones show was held from 10 to 11 during all mornings and from 3 to 4 in the afternoons of Friday and Saturday. We can see this from the dip in movements (orange lines are average number of moves during one hour) during this time, and the spikes immediately at the end of the show (when a lot of people move out of the area). The second show on Sunday was cancelled: the dip in movements is missing on Sunday afternoon. This is also visible in figure 2, showing check-ins by area: people check into the concert space before 10 am for all days but before 3 pm only on Friday and Saturday.

- Heike Hofmann, Andee Kaplan, Eric Hare, and Vianey Leos-Barajas are with the Department of Statistics, Iowa State University. E-mail: {hofmann, ajkaplan, erichare, vianey}@iastate.edu.
- Dianne Cook is with the Department of Econometrics and Business Statistics, Monash University. E-mail: dicook@monash.edu.

Manuscript received 31 Mar. 2015; accepted 1 Aug. 2015; date of publication xx Aug. 2015; date of current version 25 Oct. 2015. For information on obtaining reprints of this article, please send e-mail to: tvcg@computer.org.

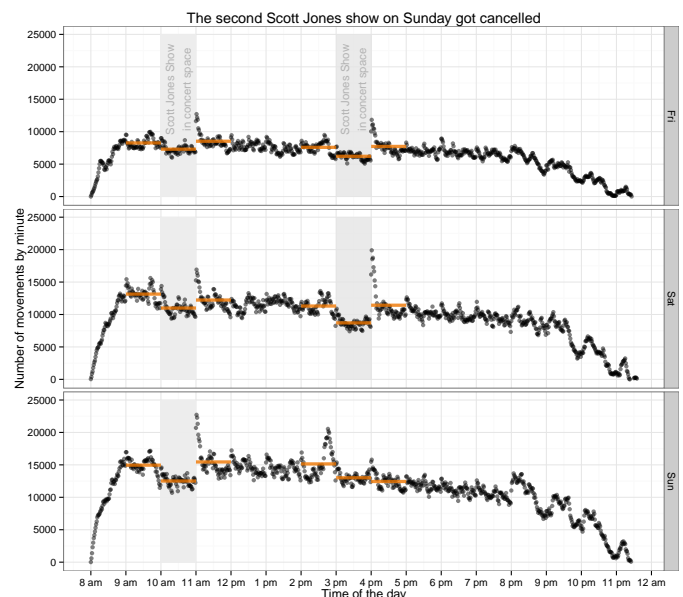


Fig. 2. Number of movements in DinoFun World by minute. The Scott Jones show is responsible for a lot of the movement in the park over the weekend.

