

SICSA Research Theme Activity Report

Please complete all sections of this reporting template and submit within 3 months of your event or activity taking place. This report will allow the SICSA Directors to provide detailed information about the progress of the SICSA Research Themes to the Pool funders, SFC, and your cooperation is appreciated.

Name of event organiser: Daniël Reijsbergen

Email address: dreijsbe@inf.ed.ac.uk

Institution: University of Edinburgh

Title of event: SICSA Workshop on Probabilistic Modelling of Urban Transportation Systems

Location of the event: Informatics Forum, Edinburgh

Date of event: 11/5/2016

From which SICSA Research Theme was this event funded? Modelling & Abstraction

Total funds claimed for event: £848.25

The workshop consisted of seven presentations including two keynote talks:

Oliver O'Brien (keynote): The State of the Art in Bikesharing Systems Research and Analysis

Vashti Galpin: Investigating an Ambulance Deployment Heuristic

Guillaume Massonnet: Probabilistic Forecast for Bike-Sharing Systems

Daniël Reijsbergen: Probabilistic Modelling of Station Locations in Bicycle-Sharing Systems

Sofia Ceppi: Ridesharing: from the Simple Matching Scenario to the Real World Application

Nicolas Gast: Asymptotic Properties of Bike-Sharing Systems

Güneş Erdoğan (keynote): An Overview of Static Bicycle Relocation Models

We had 31 registrations of which roughly 25 people turned up. The attendees included: (a) Informatics researchers from several groups from the University of Edinburgh, (b) research partners of the organiser on an EU project - two from INRIA Grenoble (France) and one from IMT Lucca (Italy), (c) researchers from several other Scottish universities, including Heriot Watt and the University of the West of Scotland, (d) several industry representatives, including Scottish Enterprise and Transport for Edinburgh, and (e) the two invited speakers: Oliver O'Brien from University College London and Güneş Erdoğan from the University of Bath.

Outcomes:

Main outcomes include the establishment of research contact with the groups of the invited speakers. Discussions between researchers from Edinburgh and INRIA Grenoble will hopefully also lead to a paper. The workshop also facilitated contact between industry and research – there is interest from Transport for Edinburgh for bicycle-sharing systems and the representative from TfE