



IFSTTAR



École des Ponts
ParisTech



Spatio-temporal data mining for a better understanding of people mobility. The Bicycle Sharing System (BSS Case study)

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BSS Workshop - Introduction

Analysis of Mobility patterns

- Human and social sciences framework
- Emergence of information and communication technologies, advent of new observations

→ **Emergence of a concept : urban computing**

→ **New approaches based on computer science**

Objectives in the transport domain

- Better understanding of mobility patterns of travellers and goods
- Better understanding of the use and performance of transportation systems



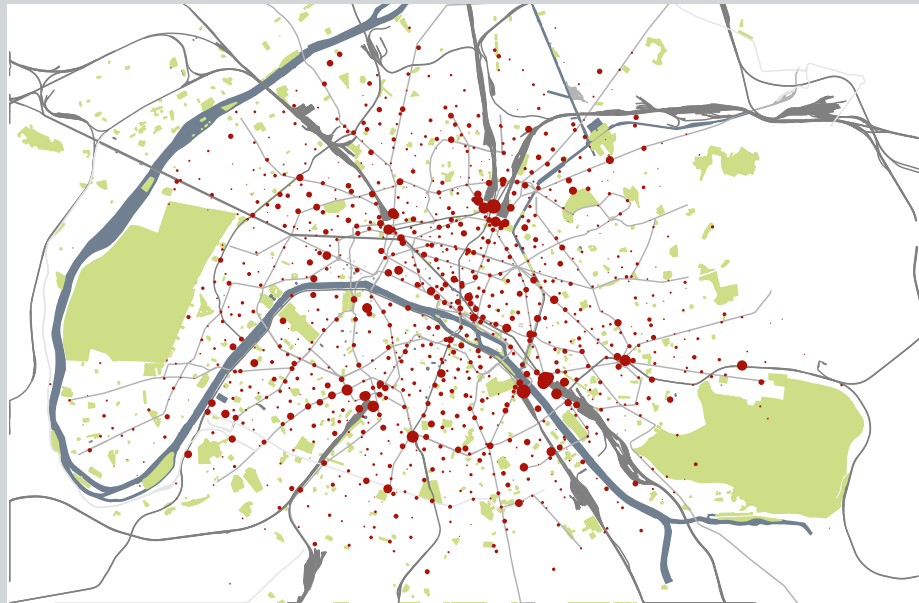
BSS Workshop - Introduction

→ **Five presentations dedicated to Data mining of BSS Systems**

- Lyon, Barcelona, Paris, London and Dublin

→ **Two transverse presentations**

- Use of Mobile Phone data
- Analysis of data sources on bicycle mobility



Program - am

- 10h20 **Latifa Oukhellou** (Ifsttar, GRETTIA) – *Introduction*
- 10h30 **Pierre Borgnat** (ENS Lyon, Laboratoire de Physique),
A Dynamical Network View of Lyon's Vélo'v Shared Bicycle System
- 11h00 **Jon Froehlich** (University of Maryland, HCIL - UIMACS),
Sensing and Predicting the Pulse of the City through Shared Bicycling
- 11h30 **Etienne Côme** (UPE, Ifsttar - Grettia),
Spatio-temporal Clustering to analyze the Vélib' Shared Bicycle System
- 12h00 Lunch
- 13h30 Coffee break (amphithéâtre Navier)



Program - pm

- 14h00 **Vincent Aguilera** (UPE, LVMT),
Monitoring a Transit System with Mobile Phone Data.
- 14h30 **Neal Lathia** (University of Cambridge, Computer Laboratory),
Measuring the Effect of Policy Changes in Shared-Bicycle System
- 15H00 **Fabio Pinelli** (IBM Research and Development - Dublin),
Cityride: a Predictive Bike Sharing Journey Advisor
- 15H30 **Francis Papon** (UPE, Ifsttar-DEST),
Analysis of Data Sources on Bicycle Mobility
- 16H00 Discussions

