

Datascience for mobility analysis

Position: Postdoctoral Researcher

Duration: 3 Years.

Project summary. Mobility analysis is a major topic in datascience. A better understanding of the complex behaviour of people's movements in a city is essential to our objectives of environmental sustainability, self driving cars, and futuristic smart cities. Thus, recently, this topic has been subject of fundamental research in algorithms, datascience and machine learning.

In a city, large number of data sources – both static and mobile – can provide data, but this large volume of data is itself a challenge to process. Data in a city is also varied and complex. It ranges from simple sensor events to complicated GPS trajectories. Effective use of this complex data requires fundamentally new techniques.

This topic provides opportunities for research from many different perspectives, including data mining, algorithms, machine learning, and network science. Candidates with interest in one or more of these areas are encouraged to get in touch. Experience in one of the areas of trajectory analysis, location and spatial data mining, graph or network analysis can be particularly relevant for the project. Applications with other relevant experience will also be considered.

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