



Method for inference of mode(s) of transportation to/from work

Method to determine the mode of transportation of a population from mobile services billing data.

In the field of transport engineering, a relevant problem is determining the origin and destination, as well as the purpose, of journeys made by a population of interest in a particular region. In addition, it is equally important to determine the distribution of use of the different modes of transport (car, bus, bicycle, etc.) that this population uses. This information is highly important for the description of a particular transport network and for the prediction of the behaviour of this population in the face of changes in this transport network.

THE TECHNOLOGY

Method to infer the transportation mode that a person use to go from/to home/work, using space-time records with low granularity. So, the uses distribution of transportation modes in the city, can be estimated. This information is useful to make management and planning strategies of people transport.

Each stage of the process uses interpretable and transparent techniques, and it is possible to calibrate each of them with parameters that can be mapped directly to the domain of the problem.

LEVEL OF DEVELOPMENT

TRL: 5. The method has been validated in a partially relevant environment with positive results.

MAIN RESEARCHER

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INTELLECTUAL PROPERTY

Patent pending

MAIN ADVANTAGES OR BENEFITS

The invention allows to know the transport flows in the city, differentiating by type of transport used (bus, walk, car, subway), from the connection that the cell phones have to the different telephony towers during the route. The data are obtained quickly.

USES/APPLICATIONS

- Telecommunications companies.
- Government.
- Service companies.

BUSSINES OPPORTUNITIY

- Technology available for licensing out of Chile.

CONTRACT

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