

ePark

Intelligent Parking System

Realization

HES-SO Fribourg
Prof. Jean Hennebert
jean.hennebert@hefr.ch

Sébastien Baudin
Christophe Gisler
Alain Schmoutz
Antonio Ridi

Keywords

- Mobile application
- Parking management
- Stochastic models

Our skills

Mobile application
development and stochastic
models of parking occupation

Valorization

Reduce the time to find
parking. Help cities to plan
better parking location.

Partnership

- iimt – University of Fribourg
- Groupe e
- Softcom
- Banque Cantonale de Fribourg

Funding

Fonds de Soutien à
l'Innovation

Schedule

11.07.11 – 31.01.14



In busy cities, drivers are spending more than one third of the travel distance searching of a free parking space, leading to wasted oil, extra pollution, stress and economic loss. Further to this, many cities have implemented non-uniform parking plans with diverse time limitations according to city areas. As a consequence, a parking spot found by a driver may not match the expectation, increasing even more stress and frustration.

ePark – Intelligent Parking System is a web service allowing drivers to be directed towards parking locations maximizing the probability to find a free parking space. The application is relying on path finding algorithms that takes into account the density of parking, the statistics of hourly and daily occupation and circulation constraints.

An iPhone application has been built covering the city of Fribourg thanks to a partnership between Groupe e, Softcom, Banque Cantonale de Fribourg and the international institute of management in technology. The application lets the community of users sends feedbacks on current parking occupation, improving the quality of the parking statistics over time. The application also allows the user to filter out parking propositions according to a set of characteristics, for example time limitation, price, availability of charging station, etc.



ETAT DE FRIBOURG
STAAT FREIBURG

Promotion économique PromFR
Wirtschaftsförderung WIF