



WG1&2 – Internal Workshop – 22 Sept. 2015

MANAGEMENT OF PERFORMANCES BETWEEN POSITIONING TERMINAL AND ITS APPLICATION

Call for abstracts

WORKSHOP TOPIC and OBJECTIVES

The SaPPART Action scientific activity is led by two Working Groups with clear allocation of the tasks between the analysis of the requirements in ITS applications (WG1) and the methodology for positioning performance assessment (WG2) for the first two years of the Action, but also common tasks for the last two years. In this second half of the Action, positioning performance metrics and error models developed in WG2 have to be confronted to the applications requirements expressed in WG1.

This second internal SaPPART workshop has 2 objectives:

1. To put together experts from WG1 and from WG2 around a common scientific topic, to prepare the ground for the common tasks between the two groups;
2. To invite well-known external experts, not yet participating to SaPPART, to increase the field of expertise of the Action in map-related aspects of positioning-based ITS.

The general scientific topic of the common work between WG1 and WG2 is about the way to manage performances between positioning terminals and applications. The main issue that is proposed to be discussed in the workshop is: "How is the PVT information (Positioning-Velocity-Time) processed by the ITS Applications ?". Work at WG1 showed that most of the Applications were performing Map-matching or Geofencing to compute the quantities which are necessary to deliver the final services to the users. So, we propose to focus on the issues related to these processing methods, which, both of them, need geo-spatial data bases, that we can also name "digital maps".

Some specific topics to be addressed:

- quality of maps and input data used for Map-matching and Geofencing in different applications;
- algorithms used in Map-matching and Geofencing;
- implementation of these processes currently performed on the ITS application side;
- interoperability aspects which could facilitate a smart integration of PVT information (with the appropriate quality information) within the ITS applications;
- possibility and interest of developing inside SaPPART "generic" parametric models of Map-matching and Geofencing processes on which the impact of the PVT quality could be studied in simulation.

Other topics can be chosen if they are relevant with SaPPART scientific activities.

ORGANIZING COMMITTEE

Organizers are: David Bétaille, IFSTTAR (fr), Shaojun Feng, IC (uk), Laura Ruotsalainen, NLS (fi), Marko Sevrovic, FPZ (hr), Mihai Niculescu and Florin Nemptanu, ITS (ro).

CALL for PRESENTATIONS

Please submit your presentation summary by 31th July to david.betaille@ifsttar.fr (300 words abstract).
The floor is open to any SaPPART member and to any external scientist interested in SaPPART topics.

The workshop will meet in Bucharest, Central Library of the Politehnica University, 22th Sept. afternoon.