IFSTTAR

INSTITUT FRANÇAIS
DES SCIENCES
ET TECHNOLOGIES
DES TRANSPORTS,
DE L'AMÉNAGEMENT
ET DES RÉSEAUX

Bouguenais, November 17th 2016

Short Term Scientific Mission (STSM)
Committee
COST Action TU 1302: Satellite Positioning Performance Assessment for Road Transport – SaPPART
European Science Foundation
European Commission

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Object : STSM of Andrej Stern, GEOLOC lab, Ifsttar, France
Ref : V. Renaudin

Dear Prof Stoilov,

GEOLOC laboratory at IFSTTAR hosted Mr. Andrej Stern from the Laboratory for Telecommunications at the Faculty of Electrical Engineering together with Laboratory for multimedia at the Faculty of Electrical Engineering, University of Ljubljana (LTFE) from 12 to 30 September 2016.

During his stay, Mr. Stern worked closely with both David Bétaille and Miguel Ortiz from GEOLOC on an experimental study of the accuracy, availability and integrity of Global Navigation Satellite System (GNSS) low-cost devices and smartphones in various environments. During his visit, around 30 hours of experimental data have been collected, for a total number of 15 embedded systems. Four environments have been considered: rural road, rural highway, urban highway, deep urban. These dataset has been analyzed and a report was written by Mr. Stern.

The main conclusion is that the collected data represent a significant contribution to the classification of GNSS receivers according to the certification and standardization procedures and SaPPART main tasks on classification. It will serve as a basis for future research on receivers' accuracy, availability and integrity, but also as a PVT input to higher level of ITS applications for testing and certification purposes. The work completed during the STSM is considered as successful and unique, with a high potential for scientific publications. The host lab and the candidate will still cooperate in the scope of SaPPART and potentially new research areas.

Yours faithfully

Valérie RENAUDIN