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Dr. Shaojun Feng

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RE: COST Action TU1302 STSM Visitor at the Centre for Transport Studies, Imperial College London

Visitor's name: Martti Kirkko-Jaakkola

Imperial College CID: 00877603

Dear Professor Stoilov,

Dr Martti Kirkko-Jaakkola made a 2 weeks Short Term Scientific Mission at the intelligent Infrastructure and Transport System (iITS) Laboratory within the Centre for Transport Studies, Imperial College London between 19 October and 30 October 2015.

During his visit, Dr Kirkko-Jaakkola analysed the availability of GNSS in a typical urban vehicular scenario, assessed the performance of ITS positioning terminals and defined the performance metrics to quantify the quality of the RTK solutions. In addition to the planned works, we also carried out a trial in London covering normal residential areas, motorway, city canyon and tunnel. This trial was supported by Microsoft Mobile and Transport for London (TfL). Microsoft consented to the use of its special mobile phone under development. TfL gave support by lending us a special bus-like van with the iBUS system on board. The equipment in hosting organisation including high grade IMU, Leica geodetic receiver and two u-Blox receivers was used in the trial. The raw GNSS reference data in London during the trial period were also obtained to support the data processing with Waypoint Inertial Explorer software to determine the "truth". Preliminary results have shown the potentials of using mobile phone to provide precise positioning solutions. His findings may lead to good journal publications.

Dr Kirkko-Jaakkola has also discussed a number of technical issues with staff and students at CTS on GNSS navigation. These discussions lay the foundation of future collaboration. In summary, His STSM visit is fruitful and achieves beyond the goals expected at the application stage.

Yours sincerely,



Shaojun Feng

CC: Professor Washington Ochieng