QUARTERLY PROGRESS REPORT

Fiscal Year 2015/2016, Quarter 1st

Caltrans Task Manager: Bradley Mizuno    Task ID/Project ID (for Caltrans use only):

Task Order No.: 006    Contract No.: 65A0529

1. Task Title: Automated Assessment of Safety-Critical Dynamics in Multi-modal Transportation Systems

2. Describe last quarter’s tasks/deliverables:

   Task 5:
   i. Development of algorithms to differentiate between automobiles and non-motorized modes.
   ii. Validating and refining the results of the algorithms using ground truth from the intersection.
   iii. Calibrating the computer vision software, Traffic Intelligence, to make it functional for the given intersection.
   iv. Developing algorithms to estimate automobile counts for various turning movements.

3. Describe next quarter’s tasks/deliverables and their due dates:

   Task 4:
   i. Collect more video and sensor data to test the algorithm developed for the study.
   ii. Manually label the sensor events on the crosswalk to differentiate between different modes.

   Task 5:
   i. Analyse the sensor data to infer yielding/non-yielding patterns of right turn movements
   ii. Compare the performance of the classification and automobile count algorithms with the ground truth as obtained from the video.
   iii. Modify the Traffic Intelligence algorithm to improve the efficiency of detecting non-motorized modes.

4. Describe Project Status:

   • Are you on time with your schedule?
     ☒ YES
     ☐ NO

   • Are you on budget?
     ☒ YES
     ☐ NO

   • Are you on scope?
     ☒ YES
     ☐ NO
If the answer to any of the above is NO, please explain below:

5.  Estimated percent of work completed: 40%
    Estimated percent of budget expended: 44%

6.  What are your expenditure projections for the next four quarters or until the project’s end?

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Submitted By: Offer Grembek

[Signature]

Date: 11/16/15