QUARTERLY PROGRESS REPORT

Fiscal Year 2015/2016, Quarter 2nd

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 4:
   i. Collected video data and developed an interface to manually label events on the crosswalk for ground truth.
   ii. Acquired additional sensor data to test and improve the classification algorithms

   Task 5:
   i. Developed models to identify events associated with drivers yielding/non-yielding to non-motorized modes.
   ii. Identified factors that are associated with the yielding behavior.
   iii. Improved the efficiency of the mode classification algorithms

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

   Task 4:
   i. Collect a large sample of video and sensor data for the intersection to test the final set of algorithms.

   Task 5:
   i. Complete the calibrations of algorithms associated with mode-specific and multi-modal safety-critical behavior
   ii. Compare the performance of the classification and automobile count algorithms with the ground truth as obtained from the video.
   iii. Extract the trajectories from Traffic Intelligence algorithm and compute surrogate measures.

   Task 6:
   i. Develop the final report and identify opportunities for tech transfer

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: 75%  
   Estimated percent of budget expended: 75%  

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

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Use this area for any additional information. Clearly identify which Section this information applies to.

Submitted By: Offer Grembek
Date: 01/29/16