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| **UTC Project Information** | |
| Project Title | Developing a Cost-Effective Bus-to-Pedestrian Near-Miss Detection Method Using Onboard Video Camera Data |
| University | University of Washington |
| Principal Investigator | Yinhai Wang |
| PI Contact Information | yinhai@uw.edu |
| Funding Source(s) and Amounts Provided (by each agency or organization) | University of Washington PacTrans $46,000  Washington State Transit Insurance Pool $46,000 |
| Total Project Cost | $92,000 |
| Agency ID or Contract Number | DTRT13-G-UTC40 |
| Start and End Dates | December 16, 2016 – January 31, 2018 |
| Brief Description of Research Project | The primary goal of the project is to develop a method that can detect bus-to-pedestrian near-miss events in order to support bus-to-pedestrian collision avoidance applications and provide additional data source for safety statistical analysis. Specifically, we will define indicators for near-miss events in videos taken by onboard front facing cameras, then develop a video processing framework to automatically detect and record near-misses. Given the fact that the northwest region has a large number of transit agencies and relies heavily on transit buses in terms of commuting, such near-miss detection method will definitely obtain additional information to enhance further research on bus-to-pedestrian safety studies in the region. Potentially, the proposed method can save cost for related agencies and improve both pedestrian and bus safety. |
| Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here |  |
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| Impacts/Benefits of Implementation (actual, or anticipated) |  |
| Web Links   * Reports * Project Website |  |