Summary of SIP-adus project (FY2015)

Name of the project	Study on analytical methodology to estimate the effect of automated driving technology on reduced number of traffic accident fatalities in order to achieve the government target
Responsible Organization	Institute for Traffic Accident Research and Data Analysis

Name   Makoto Shiota

Object of the Project

The aim of this project is to analyze trends of recent traffic accidents and to estimate effects of elemental technology used for automated driving system in Japan. In this project, traffic accident patterns provided by the last year study were analyzed.

Project Summary

(1)Traffic accident data analysis
Analyzing 2014 traffic accident data provided by National Police Agency , all causalities were classified by 255 accident patterns.

(2)Traffic accident data study
According to prototype analysis sheets, 2013 and 2014 traffic accident data were analyzed. Valuable for accident spot information such as urban and rural areas and valuable for wrong direction driving at a highway were newly adopted. Finally, an analysis sheet was added to the MS Excel original file with an accident pattern sheet.

(3)Additional study for particular accidents
Based on an accident pattern sheet and an analysis sheet obtained at previous steps, further study was carried out for car to pedestrian accident in order to consider unique features of this accident and the future study.

Future plan

Only 80% of fatalities were covered with these 255 accident patterns selected at this study. Therefore, another analysis methodology will be needed to estimate effects of vehicle safety technology for the rest of fatalities.
This study was intended for all casualties. However, it might be considered that depending on an accident pattern, there are accidents with more fatalities and with much less fatalities. In the next year, this study will be intended for slight injured accidents, severe injured accidents and fatal accidents respectively, without specifying a particular accident.