

Computer Vision

Final Project

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- Read several videos and implement two functions
 - Lane departure system
 - 'Warning:Lane departure' message should be printed out on the input video when a vehicle begins to move out of the driving lane
 - The color of message should be red, and should be printed out on the left top of the input video
 - You should display lane detection result as well
 - Front car distance measuring system
 - 'Stop', 'Go' 'Okay' messages should be printed out depending on the distance from the front car
 - The color of message 'Stop' should be red, 'Go' should be green, 'Okay' message should be blue and should be printed out on the right top of the input video
- Notice
 - Only the input video with messages should be displayed
 - The faster your system is, the better
 - You cannot change parameters for each video
 - However, automatic parameter change is okay
 - Top 5 students should present their algorithm on Tuesday at 16th week

- Grading policy
 - Lane departure system:8pts
 - Proper lane detection: 4pts
 - Missing: 2pts
 - False alarm: 1pt
 - Message print out:1pt
 - Front car distance measuring system:8pts
 - Proper front car detection: 4pts
 - Missing: 2pts
 - False alarm: 1pt
 - Message print out:1pt
 - Speed of your system:4pts
 - Less than 30ms for each image: 4pts
 - Less than 60ms for each image:2pts
 - Less than 1s for each image:1pt
 - More than 1s:0pt