

Abstract: Implementation of Smart Vehicle Driving Recorder System

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Abstract

Vehicle black boxes that have similar functions as airplane black boxes are currently being used due to the loss of many lives and properties arising from vehicle accidents. Both black-box products and event data recorder (EDR) systems are currently available in the market. Most of the existing in-vehicle black boxes, however, record only external videos and images and cannot show the vehicle's driving status, whereas EDR products record only the driving status and not external videos. to address the problem of black boxes that can record only videos and images and that of EDR systems that can record only driving data, an Implementation Smart Vehicle Driving Recorder System(ISVDR) that uses MOST (Media-oriented System Transport), a new vehicle multimedia network, and OBD-II (Onboard Diagnostics II), a current standard of electronic-control network, was realized in this study to collect data from the electronic-control devices. The system uses external sensors such as CAM (camera) and GPS (global positioning system) to collect video, time, and location data that will be needed to make a judgment on the vehicle's current status.

Acknowledgement

Human Resource Training Project for Regional Innovation

This research was financially supported by the Ministry of Education, Science Technology (MEST) and National Research Foundation of Korea (NRF) through the Human Resource Training Project for Regional Innovation