Drive Recorder Database for Accident/Incident Study and Its Potential for Active Safety Development

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In cooperation with Society of Automotive Engineers of Japan, Inc.



Recording device : Image-captured drive recorder



Field Area for Data Collection



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Breakdown of incident data classified by level of criticalness





camera images.

2-camera data collection and analysis will be extensively conducted.

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Relevant Partners in Accident/Incident Data Analysis

How could we share driver data including video on a global level?

(1)Accident/Incident Study:

Tokyo Univ. of Agri. & Tech., U. of Tokyo, Ibaraki Univ., Akita Pref.Univ., NTSEL, Jiken Center



②Active Safety Device Development and Assessment: 11 Automotive Manufacturers, and 7 Automotive Suppliers.



National Police Agency, JSAE, etc.







Data Sharing Activities in Japan

•What are the requirements on the organisations storing/analyzing the driver data?

1 [2-Camera Drive Recorder Research Group]

 Promoting traffic safety research by making use of 2-camera drive recorder data

- Fulfillment of 2-camera drive recorder database content
- Sharing Information relevant to drive recorder and road-accident study
- July 2012 started. (2 universities and 7 automotive-related companies)
- Research group members pay for data maintenance and new data update.

② Former Seconder Utilization Research Group

- Current status of drive recorders and recent activities in data analysis, including information sharing about the perspectives of the vehicle safety technology and investigations on new approaches of active safety.
- Started in May 2011.

(5 universities, 9 government-related research institutes,

9 automotive-related companies, 2 insurance companies, 4 user groups)

Examples of information sharing by each research group

•How could different stakeholders contribute to facilitate driver data sharing?

1. Automotive manufacturers

- Honda, Nissan etc.: Incident data classification by active safety countermeasures
- **Toyota CRDL**: Investigation of pedestrian motion modeling
- **Mitsubishi**: Effectiveness estimation of intersection collision prevention systems

2. Governments and National Research Institutes

- **MLIT**: Traffic safety countermeasures of residential road based on scientific analysis
- **Jiken Center** : Analysis on low-speed rear-end collision accidents
- **NTSEL**: Vehicle-to-pedestrian incident analysis

3. Universities

- **TUAT, Univ. of Tokyo :** Analysis on causal factors of rear-end collisions
- **TUAT, Ibaraki Univ.** : Driver behavior analysis in yellow traffic signal
- Akita Pref. Univ. : Active safety countermeasure effectiveness estimation



Future Roadmap of TUAT Drive Recorder Data Center

•How and by whom will driver data be collected in the future and how will that affect the data sharing?



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Driving education DVD

Sample of image data available on website of JSAE

Hazard anticipation training DVD on sale



さまざまなケースで、後車からの追突による事故が発生しています。 交通事故負傷者のうち、約半数が弾船の損傷で主に「ムチウチ」です。 万一のとき、身構えていればムチウチ」は防げます。停止時はバックミラーでの後方確認を心がけましょう。







社内の交通安全教育に最適
実際の映像で学習効果パッグン
安全管理者必須アイテム

本教社編集の高級者や交互登録者が交通交通数素の高齢予約11--ニン グ(化)(T)を実施する際、それぞれの教育目的に沿ったとやリハット専得を教 優リストッジ出い、効果的実育を行える単を追いにているため、定 来のイラスト級に比べりアルな自民予加トレーニングが行え、高い復有効果 が得られるもので連載しております。

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Thank you for your attention.



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