

## 研究成果報告書 (掲載期間 2018.11–2019.10)

### 審査学術論文

- (1) Peng Ping, Yuan Sheng, Wenhui Qin, Chiyomi Miyajima, Kazuya Takeda: Modeling driver risk perception on city roads using deep learning, *IEEE Access*, Vol. 6, pp. 68850–68866, Nov. 2018.
- (2) Peng Ping, Wenhui Qin, Yang Xu, Chiyomi Miyajima, Kazuya Takeda: Impact of driver behavior on fuel consumption: Classification, evaluation and prediction using machine learning, *IEEE Access*, Vol. 7, pp. 78515–78532, June 2019.
- (3) Ekim Yurtsever, Chiyomi Miyajima, Kazuya Takeda: A traffic flow simulation framework for learning driver heterogeneity from naturalistic driving data using autoencoders, *International Journal of Automotive Engineering*, Vol. 10, No. 1, pp. 86–93, 2019.
- (4) Andrey Alekseenko, Hien Q. Dang, Gaurav Bansal, Javier Medina, Takatsugu Hirayama, Chiyomi Miyajima, Ichiro Ide, Kazuya Takeda: ITS+DM Hackathon (ITSC 2017): Lane departure prediction with naturalistic driving data, *IEEE Intelligent Transportation Systems Magazine*, Vol. 11, No. 4, pp. 78–93, 2019.

### 学会発表

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- (2) 田中義弘, 宮島千代美: カーブにおけるドライバの運転行動の分類, 令和元年度電気・電子・情報関係学会東海支部連合大会, 2019年9月, 名古屋.
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- (4) Kohei Tsuzuki, Chiyomi Miyajima, Kento Ohtani, Kazuya Takeda, Suguru Yamazaki, Masataka Mori, Utsushi Sakai, Kenji Muto: Detecting risky lane changes using ego and surrounding vehicle information integrated by a multi-modal variational autoencoder, *The 5th International Symposium on Future Active Safety Technology toward zero traffic accidents*, 6 pages, Sept. 2019, Virginia, USA.
- (5) Ekim Yurtsever, Yongkang Liu, Jacob Lambert, Chiyomi Miyajima, Eijiro Takeuchi, Kazuya Takeda, John H. L. Hansen: Risky action recognition in lane change video clips using deep spatiotemporal networks with segmentation mask transfer, *IEEE International Conference on Intelligent Transportation Systems*, pp. 3100–3107, Oct. 2019, New Zealand.