**Cover Letter**

Professor Nei Kato

Editor-in-Chief

IEEE Transactions on Vehicular Technology

Graduate School of Information Sciences (GSIS), Tohoku University

Aramaki-Aoba 6-3-09, Aoba-ku, Sendai, 980-8579, JAPAN

Dear Editor:

Please find enclosed a manuscript entitled “A Novel Black-box Adversarial Attack Approach Against OSR for Autonomous Driving”, which I am submitting for exclusive consideration for publication as a regular paper in IEEE Transactions on Vehicular Technology.

In this manuscript, we provide a black-box adversarial attack approach against open-set recognition (OSR) problem, which is more in line with real autonomous driving situation where car company may not release their models deployed in autonomous driving system. Besides, we analyze the limitation of traditional convolution kernel and explore the impact of dynamic convolution kernel on improving the transferability of adversarial examples for the first time. Then, we apply dynamic convolution kernel to our model for improving attack success rate. To verify the effectiveness of this approach, extensive experiments are carried out on four public dataset: GTSRB, SVHN, Tiny-ImageNet and CIFAR10.

In addition, I would like to note that (a) this manuscript is the authors’ original work and has not been published nor has it been submitted simultaneously elsewhere, and (b) all authors have checked the manuscript and have agreed to the submission.

Thank you for your consideration of our work. Please address all correspondence concerning this manuscript to me by e-mail (kzhang@shiep.edu.cn).

Sincerely,

Kai Zhang, Ph.D.