



Machine learning approach in control loop for scaled 1/10 connected and autonomous cars

■ Goals

Autonomous vision and decision-making have many kinds of applications in various fields, especially in driverless and connected cars and decision-making on highways. Machine learning occupies a large proportion in this case where it provides robust and adaptive performance, also reduces the cost of development and time. The research will introduce the features, like the detect capability, applicable terrain, and different detect-radar.

■ Requirements

You should understand *Automatic control*, *Machine Learning*, *Automotive*.

Bibliography

- [1] Jiaxuan Lu, Autonomous Vision of Driverless car in Machine Learning, Proceedings of the 2022 7th International Conference on Social Sciences and Economic Development (ICSSSED 2022), Vol. 215, pp. 2213 – 2118, 2022.
- [2] Joel Janai, Fatma Guney, Aseem Behl and Andreas Geiger, Computer Vision for Autonomous Vehicles: Problems, Datasets and State of the Art, Found. Trends Comput. Graph. Vis., Vol. 12, pp. 1-308, 2021.

Contact:

Di Gennaro Stefano: stefano.digennaro@univaq.it
Bianchi Domenico: domenico.bianchi@univaq.it

Website:

www.univaq.it