

## **TTDC Team Member Wins 2021 JSME Young Engineers Award**

Toyota Technical Development Corporation (TTDC, Head Office: Toyota, Aichi, President: Yoshiyuki Kagawa) is proud to announce that one of our team members has won the coveted Young Engineers Award of the Japan Society of Mechanical Engineers (JSME) for his paper entitled, “Development of Autopilot System with a Driver Model for the Purpose of Quantitative Evaluation of Vehicle Kinetic Performance.”

Since 1958, the JSME has celebrated the previous year’s most deserving technical papers and technologies through a range of annual prizes as part of its efforts to encourage the further development of mechanical engineering and industry in Japan.

### Outline of Award

Title of winning paper: Development of Autopilot System with a Driver Model for the Purpose of Quantitative Evaluation of Vehicle Kinetic Performance

Winner: Takahiro Inagaki

Judges’ comments: Since vehicle kinetic performance evaluations of vehicles tend to rely on subjective feedback from experienced test drivers, many companies are looking for quantitative solutions. The development of an autopilot system equipped with a driver model that accurately follows a pre-planned driving route enables quantitative evaluations of kinetic vehicle performance factoring in driver-centric indices such as operation feel and vehicle-driver integration. We highly commend the inventiveness and potential wider applicability of this development.

TTDC intends to continue leveraging our advanced driver model and autopilot system technologies to help resolve a wide range of issues affecting our community, including reducing the workload of test drivers and addressing shortages of haulage workers at production and logistics sites.



Prizewinner: Takahiro Inagaki, MILS/SILS Development Dept., Simulation Business Div.

(left: at award ceremony, right: with certificate and presentation plaque)



## Overview of Toyota Technical Development Corporation (TTDC)

Established: April 2006

Location: 1-9 Imae, Hanamoto-cho, Toyota, Aichi, 470-0334, Japan

Representative: Yoshiyuki Kagawa, President

Details of business: **IP Business Field**

Searches, technical trend analysis, global filing and rights acquisition (patents, designs, and trademarks) translation, and interpretation.

### ***Keisoku Business Field***

Development and manufacturing of measurement instrumentation and equipment, proposals for the planning and design of equipment and facilities, presentation and offering of model-based development solutions, calibration, inspection, and repair of measuring instruments, and support for the development of next-generation businesses.

Capital ratio: 100% investment by Toyota Motor Corporation

URL: <https://www.toyota-td.jp/en/>

