

# News Release

FOR IMMEDIATE RELEASE

**Winner of “Excellent Technical Paper Presentation Award”  
at the 2015 Annual Fall Congress of the Society of Automotive  
Engineers of Japan**

**Tokyo, January 26, 2016** ---Hitachi Automotive Systems, Ltd. today announced that the company participated in the 2015 Annual Fall Congress of the Society of Automotive Engineers of Japan (JSAE) held at Kitakyushu City, Fukuoka Prefecture, at which Mr. Kosuke Sakata, a member of the company’s Smart ADAS Technology Development Department, won the Excellent Technical Paper Presentation Award for the presentation of “Applying Model Predictive Control Method to Eco Cruise Control.” The award presentation ceremony will be held on May 26, 2016, at the 2016 JSAE Annual Spring Congress at the Pacifico Yokohama convention center in Kanagawa Prefecture.

The award is given to speakers at the JSAE annual spring and fall congresses for excellence in presentation of academic papers. An academic lecture committee makes selections based on an audience evaluation of the quality of the paper, the quality of the presentation, and the quality of the slides of presentation documents. The winners are decided by an award committee. Out of 287 papers presented at the congress, five received an award including the one from Hitachi Automotive Systems.

The paper proposed the application of model predictive control to vehicle control. Its purpose is to improve fuel efficiency by modeling the movement characteristics of the vehicle and the switching of traffic lights to improve the efficiency with which the vehicle passes through them by applying appropriate acceleration and deceleration. This method was derived by converting an algorithm for general predictive control a fixed time ahead to an algorithm that constantly predicts a fixed distance ahead, thereby enabling efficient, smart speed control.

Predictive control constructed using this new algorithm will be studied with future application to autonomous driving control in mind.

■ Title of paper:

“Applying Model Predictive Control Method to Eco Cruise Control”

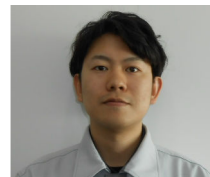
■ Recipient of award:

Kosuke Sakata, Smart ADAS Technology Development Department

■ Co-author:

Ryosuke Shimizu, Smart ADAS Technology Development Department

【Recipient of award】



Kosuke Sakata

【Co-author】



Ryosuke Shimizu

**About Hitachi Automotive Systems, Ltd.**

Hitachi Automotive Systems, Ltd. is a wholly owned subsidiary of Hitachi, Ltd., headquartered in Tokyo, Japan. The company is engaged in the development, manufacture, sales and services of automotive components, transportation related components, industrial machines and systems, and offers a wide range of automotive systems including engine management systems, electric power train systems, drive control systems and car information systems. For more information, please visit the company's website at <http://www.hitachi-automotive.co.jp/en/>.

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