

# Seminar

## The vehicle of the future: how autonomous will it be?

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Due to advances in driver assistance technology, autonomous driving seems to be the next big step in automotive development. This new technology, which promises improved traffic safety and unparalleled levels of comfort, simply depends upon the effort and time necessary for its development. While current research vehicles demonstrate significant progress, it is not plausible that autonomous vehicles will be introduced in only one big step. In this seminar, we support this hypothesis with results from our long-term research program at T.U. Darmstadt.



Hermann Winner received his Dr. rer.nat. in Physics from the University of Münster, Germany, in 1987, after which he began his industrial career with Robert Bosch GmbH in Karlsruhe. In the first of nearly 15 years with Robert Bosch, he developed Advanced Drive-by-wire technologies and Advanced Driver Assistance Systems (ADAS). Since 1995 he has been responsible for the series development of Adaptive Cruise Control. Dr. Winner became a Full Professor in the Mechanical Engineering Department of Technische Universität Darmstadt in 2002 and heads the Automotive Engineering Institute. His research focuses on Automotive Systems Engineering, Advanced Driver Assistance Systems (ADAS) and Active Safety, as well as Vehicle Dynamics.

He founded the German research association Uni-DAS for university research on ADAS and is speaker of the Automotive Systems Engineering Network within the TU Darmstadt. The German Handbook of Driver Assistance System is edited by him and contains many chapters from him as author. He has supervised more than 30 doctoral dissertations and held more than 100 patents.

He is appointed to the Scientific Advisory Board of the German ministry of transport (BMVBW).

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