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Hermann Winner Stephan Hakuli Felix Lotz Christina Singer *Editors*

Handbook of Driver Assistance Systems

Basic Information, Components and Systems for Active Safety and Comfort



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About the Author

Hermann Winner began working at Robert Bosch GmbH in 1987, after receiving his Ph.D. in physics, focusing on the predevelopment of "by-wire" technology and Adaptive Cruise Control (ACC). Beginning in 1995, he led the series development of ACC up to the start of production. Since 2002, he has been pursuing the research of driver assistance systems engineering topics as professor of Automotive Engineering at the Technische Universität Darmstadt.

After finishing his studies in physics, Stephan Hakuli developed driving functions for highly automated vehicles as a research associate at the Institute of Automotive Engineering (FZD) at the Technische Universität Darmstadt. Today, he works as product manager and subject specialist for driver assistance systems at IPG Automotive GmbH.

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This fundamental work explains in detail systems for active safety and driver assistance, considering both their structure and their function. These include the well-known standard systems such as Anti-lock braking system (ABS), Electronic Stability Control (ESC) or Adaptive Cruise Control (ACC). But it includes also new systems for protecting collisions protection, for changing the lane, or for convenient parking.

The book aims at giving a complete picture focusing on the entire system. First, it describes the components which are necessary for assistance systems, such as sensors, actuators, mechatronic subsystems, and control elements. Then, it explains key features for the user-friendly design of human-machine interfaces between driver and assistance system. Finally, important characteristic features of driver assistance systems for particular vehicles are presented: Systems for commercial vehicles and motorcycles.

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