Self-driving cars are no longer in the realm of science fiction, thanks to the integration of numerous automotive technologies that have matured over many years. Technologies such as adaptive cruise control, forward collision warning, lane departure warning, and V2V/V2I communications are being merged into one complex system.

The papers in this compendium were carefully selected to bring the reader up to date on successful demonstrations of autonomous vehicles, ongoing projects, and what the future may hold for this technology. It is divided into three sections: overview, major design and test collaborations, and a sampling of autonomous vehicle research projects.

This book will be of interest to a wide range of readers: engineers at automakers and electronic component suppliers; software engineers; computer systems analysts and architects; academics and researchers within the electronics, computing, and automotive industries; legislators, managers, and other decision-makers in the government highway sector; traffic safety professionals; and insurance and legal practitioners.

About the editor
After graduating from Rensselaer Polytechnic Institute with a BEE, Ronald K. Jurgen held various technical magazine editorial staff positions, including 30 years with IEEE Spectrum. Now retired, he is the editor of the Automotive Electronics Handbook and the Digital Consumer Electronics Handbook, and assistant editor of the Electronics Engineers’ Handbook, Fourth Edition. He is also the editor of more than a dozen SAE International books on automotive electronics.
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