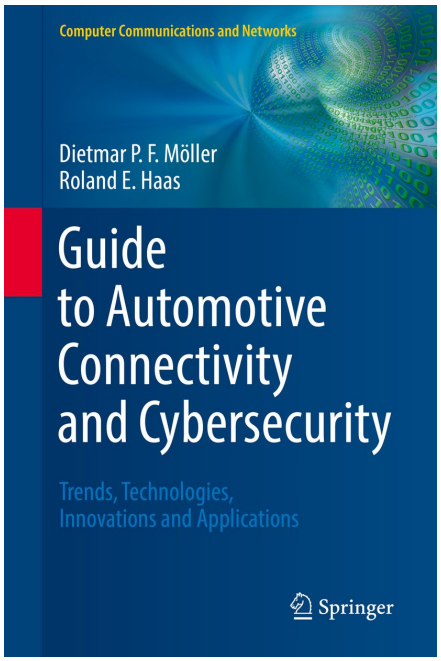

1st ed. 2019, XXV, 645 p. 210 illus., 81 illus. in color.

Printed book

Hardcover

79,99 € | £70.50 | $89.99
[1]85,59 € (D) | 87,99 € (A) | CHF 94,50

eBook

67,40 € | £55.99 | $69.99
[2]67,40 € (D) | 67,40 € (A) | CHF 75,50

Available from your library or springer.com/shop

MyCopy [3]

Printed eBook for just
€ | $ 24.99
springer.com/mycopy

Dietmar P.F. Möller, Roland E. Haas

Guide to Automotive Connectivity and Cybersecurity

Trends, Technologies, Innovations and Applications

Series: Computer Communications and Networks

- Introduces the full range of concepts and design methods in the field of Car IT and Automotive Cybersecurity
- Provides fundamental insights and describes innovative approaches, extended by use cases and exercises
- Examines how Car IT and Automotive Cybersecurity will influence the development of autonomous cars

This comprehensive text/reference presents an in-depth review of the state of the art of automotive connectivity and cybersecurity with regard to trends, technologies, innovations, and applications. The text describes the challenges of the global automotive market, clearly showing where the multitude of innovative activities fit within the overall effort of cutting-edge automotive innovations, and provides an ideal framework for understanding the complexity of automotive connectivity and cybersecurity.Topics and features: discusses the automotive market, automotive research and development, and automotive electrical/electronic and software technology; examines connected cars and autonomous vehicles, and methodological approaches to cybersecurity to avoid cyber-attacks against vehicles; provides an overview on the automotive industry that introduces the trends driving the automotive industry towards smart mobility and autonomous driving; reviews automotive research and development, offering background on the complexity involved in developing new vehicle models; describes the technologies essential for the evolution of connected cars, such as cyber-physical systems and the Internet of Things; presents case studies on Car2Go and car sharing, car hailing and ridesharing, connected parking, and advanced driver assistance systems; includes review questions and exercises at the end of each chapter.