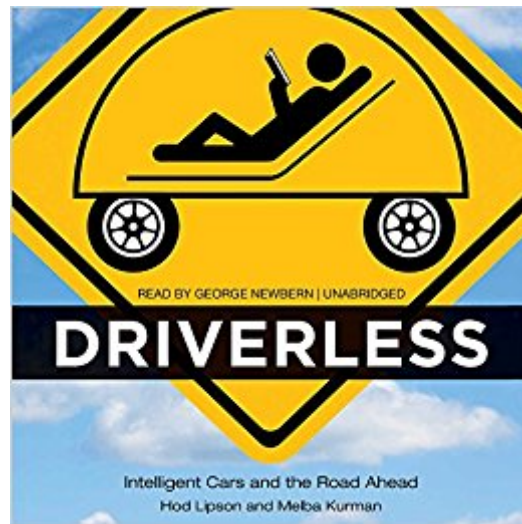The book was found

Driverless: Intelligent Cars And The Road Ahead

Synopsis

Actor George Newbern reads Driverless, a comprehensive and entertaining exploration of self-driving cars. In the coming decade, intelligent cars and trucks will hit the streets, rearranging established industries, enabling new business models, saving lives, easing air pollution, and reshaping cities. Long-suffering commuters will finally be able to live wherever they wish, and read (or nap) on their drive to work. The bad news is that hundreds of thousands of driving-related jobs are at risk, our legal system will need to be re-drawn, and passenger privacy could become a luxury of the past.This book provides a jargon-free overview of the disruptive technologies that enable driverless cars, in particular, Deep Learning, an emerging form of artificial intelligence. The authors shed light on the opportunities and risks posed by self-driving vehicles, and make a compelling case for why their development should be our society's next concerted "Apollo moment." Driverless will equip readers to form their own, informed opinion.

Book Information

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Customer Reviews

Everyone is talking about driverless cars ... After reading this book, you will be knowledgeable enough to make your own informed opinion. (Tim Athan, Science, September 9, 2016)''Driverless vehicles are poised to usher in a massive disruption of our transportation system, our urban landscapes, our economy and quite possibly the very fabric of society. Anyone who wants to understand what's coming must read this fascinating book.'' --Martin Ford, New York Times bestselling author of Rise of the Robots'' Driverless is a great read for anybody interested in technological, societal, and ethical implications of self-driving cars. The book reaches across fields

and issues thoughtfully, and presents a comprehensive view of the state of the art." --Daniela Rus, Director, CSAIL, MIT"Best explanation of deep machine learning for a general audience I've ever read. And I'd never realized how thoroughly driverless cars will reshape the country: no more ambulance sirens, no more road signs, no more drunk drivers. But they could also deepen economic inequality and enable scary new crimes. This book will help us all get ready." --George Musser, contributing editor at Scientific American and Nautilus magazines, author of Spooky Action at a Distance"As we anticipate the implausible once again becoming inevitable when in the near future autonomous vehicles take over our roads, Driverless presents an excellent and comprehensive assessment of this disruptive new technology and the issues and implications relating to its adoption. It's a great roadmap to help us achieve the smoothest possible transition." --Steven Berkenfeld, Managing Director in Investment Banking, Barclays

Why self-driving cars? Â Why now? Â We wrote this book for two reasons: Â first, we follow emerging technologies closely, particularly ones that -- like self-driving cars -- have the potential to profoundly change our lives. Â The second reason was more personal: Â we drive a lot and wish we didn't have to. Â Like most people, we spend hours each week unhappily waiting out traffic jams in all kinds of weather driving, frequently with precious cargo (family, friends and pets) on board. Â Driverless cars are one of the most-hyped technologies of recent years, so one of our goals in writing this book was to untangle fact and fiction. Â In clear and jargon-free language, Driverless provides an overview of the suite of technologies that make intelligent vehicles possible.Â Â We explore the critical role that artificial intelligence (AI) plays in the driverless revolution. Â In fact, we dedicate an entire chapter to the development and inner machinations of a rapidly emerging sort of AI called "deep learning" that has the potential to give robots and machines human-level artificial perception. Another technology-oriented chapter introduces the suite of hardware sensors that feed data to the car's operating system. Â Technology is just part of the story, however. Â Any complete tale of self-driving cars must analyze their impact on our daily lives, on businesses, government, and culture. One chapter delves into the way that driverless cars (a software play) will re-arrange the automotive industry (currently not a particularly AI-savvy industry). Â Another chapter covers the way that thus far, the U.S. federal government has failed to demonstrate the leadership we need. Â We dig into the surprisingly long and colorful history of self-driving vehicles. We also speculate about the raging torrent of new data that driverless car sensors will generate, and what these new torrents of data will do to our sense of privacy and the way intelligent cars will navigate through traffic-choked city streets.Â Â The book winds up with a

look at the future: as self-driving cars disrupt business models, which jobs will disappear and what new ones will emerge? On a less serious note, fans of online retail and instant gratification take heart! Imagine ordering lunch at the press of a button, and a few minutes later, enjoying a delicious meal that was rushed over in a heated delivery pod the size of a lunchbox. Choosy shoppers will order several pairs of shoes to their homes, select the pair that fits best, and send the rest back in a zippy little autonomous retail pod. We hope you will enjoy this book. We enjoyed writing it.

This is one of the best books on the market for a thorough and proper overviews of the self-driving revolution and autonomous ecosystem. I'd hope and highly recommend that this would be required reading for students in engineering courses dealing with robotics and control systems and sensor fusion, computer scientists working with AI, machine learning and big data, and ethics and public policy topics.

This was a surprisingly comprehensive read on all aspects of driverless cars - I feel as if I can hold a coherent conversation on the aspects of the technology involved in driverless cars and the progress made (particularly recently) that helps explain why this could actually become a reality. The envisioned future world of driverless cars the authors imagine in the book,and its challenges and improvements, is very impressive and included areas and issues I had not considered before. Highly recommend for anyone interested in AVs and the potential impact they can have on the broader economy.

I liked the detailed explanations into the technology dumbed down enough to understand. The deep/machine learning areas and image processing will inevitably make autonomous driving come to fruition and the impact of not killing a million plus people worldwide every year seems like a pretty good idea. I love the idea of taking my grandkids to the driving park where we can drive like maniacs with a steering wheel, gas pedal and brakes if we want to even if we're drunk or high but if we get out of control, the car takes over.

Ã¢Â ÂœDriverlessÃ¢Â Â• by Lipson and Kurman is an intriguing read, and as in their previous book Ã¢Â ÂœFabricatedÃ¢Â Â•, they manage to convey a highly technical subject in a manner that appeals to many readers. Ã¢Â ÂœDriverlessÃ¢Â Â• takes us on a journey of autonomous vehicles, laden with technical and bureaucratic potholes that misguided the vision for decades. With self

driving cars piloting on our roads and challenging mainstream transportation, it is mind boggling to learn how progress can be delayed by academic and governmental dogma.

Ã¢Â ÂœDriverlessÃ¢Â Â• is both an avid narration of the journey to driverless cars and a cautionary tale for many other yet to be conquered quests, that have been eluding our reach for decades.

Great, up to date, in depth assessment of the current technological, psychological, political landscape for emergent driverless car capabilities. The author does a good job of explaining complicated technology and robotic theories to the layperson.

Good book.

Looks at the current state of the technology. Forward look at the prospects, technical and societal. A good read throughout.

A little over the top but good data.

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