

DRIVERLESS

Intelligent Cars and the Road Ahead

Hod Lipson and Melba Kurman

The MIT Press
Cambridge, Massachusetts
London, England

Contents

Preface vii

Acknowledgments ix

- 1 The Robotic Chauffeur **i**
- 2 A Driverless World 23
- 3 The Ultimate Mobility Device 45
- 4 A Mind of Its Own 65
- 5 Creating Artificial Perception **85**
- 6 First There Were Electronic Highways 107
- 7 Build Smart Cars, not Smart Highways 127
- 8 Rise of the Robots 149
- 9 Anatomy of a Driverless Car 171
- 10 Deep Learning: The Final Piece of the Puzzle 197
- 11 Fueled by Data 237
- 12 The Ripple Effects 255

Afterword: The Cambrian Explosion 279

Notes 291

Index 307