Autonomous Ground Vehicles (Artech House Intelligent Transportation Systems Library)

By Umit Ozguner, Tankut Acarman, Keith Redmill

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In the near future, we will witness vehicles with the ability to provide drivers with several advanced safety and performance assistance features. Autonomous technology in ground vehicles will afford us capabilities like intersection collision warning, lane change warning, backup parking, parallel parking aids, and bus precision parking. Providing you with a practical understanding of this technology area, this innovative resource focuses on basic autonomous control and feedback for stopping and steering ground vehicles. Covering sensors, estimation, and sensor fusion to percept the vehicle motion and surrounding objects, this unique book explains the key aspects that makes autonomous vehicle behavior possible. Moreover, you find detailed examples of fusion and Kalman filtering. From maps, path planning, and obstacle avoidance scenarios...to cooperative mobility among autonomous vehicles, vehicle-to-vehicle communication, and vehicle-to-infrastructure communication, this forward-looking book presents the most critical topics in the field today.

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Editorial Review

About the Author
Umit Ozguner is a professor of electrical and computer engineering at Ohio State University and holds the TRC Inc. Chair on Intelligent Transportation Systems (ITS). He received his Ph.D. from the University of Illinois and has held positions at I.B.M., University of Toronto and Istanbul Technical University. Tankut Acarman is an associate professor of computer engineering and vice director of the Institute of Sciences at Galatasaray University. He received an M.S. in computer and control engineering from Istanbul Technical University (Istanbul, Turkey) and a Ph.D. in electrical and computer engineering from Ohio State University. Keith Redmill is a research scientist in the department of electrical and computer engineering at Ohio State University, where he earned his M.S. and Ph.D.

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