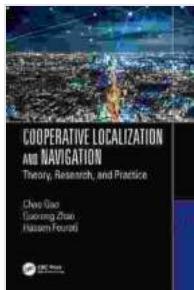


Cooperative Localization and Navigation: A Comprehensive Guide for Theory, Research, and Practice



Cooperative Localization and Navigation: Theory, Research, and Practice

 5 out of 5

Language : English

File size : 21194 KB

Text-to-Speech : Enabled

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Enhanced typesetting : Enabled

Print length : 660 pages

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Cooperative localization and navigation (CLN) is a rapidly growing field in robotics, mobile communications, and wireless sensor networks. It involves the use of multiple agents (e.g., robots, sensors, or mobile devices) to collaboratively determine their own locations and navigate in an environment. CLN has a wide range of applications, including autonomous driving, robotic exploration, search and rescue operations, and environmental monitoring.

This book provides a comprehensive overview of the latest theories, research, and practical applications in CLN. It covers all aspects of the field, from fundamental concepts to advanced algorithms and systems. The book is written by a team of leading experts in the field and is intended for

researchers, practitioners, and students who are interested in learning about CLN.

Key Features

- * Covers all aspects of cooperative localization and navigation, from fundamental concepts to advanced algorithms and systems
- * Written by a team of leading experts in the field
- * Provides a detailed overview of the latest theories, research, and practical applications
- * Includes numerous examples and case studies
- * Accompanied by a companion website with additional resources

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Chapter 4: Cooperative Navigation Algorithms * Path planning * Motion planning * Trajectory optimization

Chapter 5: Advanced Topics in Cooperative Localization and Navigation * Multi-agent systems * Wireless sensor networks * Mobile robotics * Autonomous driving

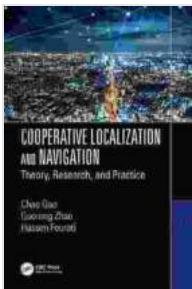
Chapter 6: Case Studies * Autonomous driving * Robotic exploration *
Search and rescue operations * Environmental monitoring

Chapter 7: Summary and Future Directions * Summary of the book * Future directions in CLN

Cooperative localization and navigation is a rapidly growing field with a wide range of applications. This book provides a comprehensive overview of the latest theories, research, and practical applications in CLN. It is an essential resource for researchers, practitioners, and students who are interested in learning about CLN.

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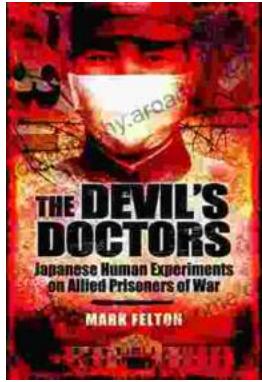
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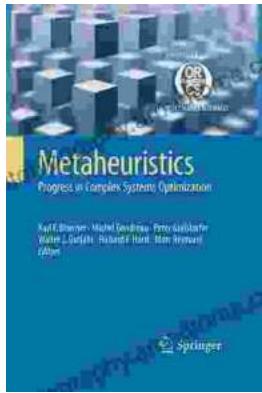
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