

Mobile Robotics: Mathematics, Models, and Methods

By Alonzo Kelly


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Mobile Robotics offers comprehensive coverage of the essentials of the field suitable for both students and practitioners. Adapted from Alonzo Kelly's graduate and undergraduate courses, the content of the book reflects current approaches to developing effective mobile robots. Professor Kelly adapts principles and techniques from the fields of mathematics, physics, and numerical methods to present a consistent framework in a notation that facilitates learning and highlights relationships between topics. This text was developed specifically to be accessible to senior level undergraduates in engineering and computer science, and includes supporting exercises to reinforce the lessons of each section. Practitioners will value Kelly's perspectives on practical applications of these principles. Complex subjects are reduced to implementable algorithms extracted from real systems wherever possible, to enhance the real-world relevance of the text.

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Editorial Review

About the Author

Alonzo Kelly holds undergraduate degrees in aerospace engineering and computer science, and both undergraduate and graduate degrees in robotics. Dr Kelly worked in the aerospace industry for ten years before returning to academia. As a professor at the Robotics Institute, he teaches mobile robotics at the graduate and undergraduate levels, conducting research in robot simulation, modeling, controls, position estimation, motion planning and human interfaces.

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