

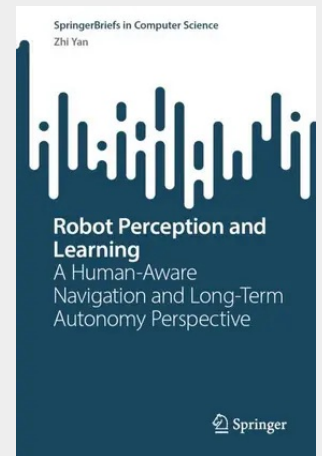
Robot Perception and Learning

A Human-Aware Navigation and Long-Term Autonomy Perspective

This book is divided into five chapters. Chapter 1 introduces the background of the research, the content positioning, and some related open source resources. Chapter 2 discusses some benchmarking issues related to the field of embodied intelligence and mobile robotics. Chapter 3 introduces robot perception, especially the object detection and tracking based on 3D lidar with contemporary characteristics. Chapter 4 introduces robot learning, especially robot online learning methods with strong embodied intelligence features. Chapter 5 summarizes the book and provides prospects for future research and application directions.

Reading this book helps readers have a systematic understanding of the latest research in related fields. The book mainly introduces methods and principles, and the corresponding experimental results need to refer to the corresponding scientific papers. This book is aimed at practitioners in the field with a certain knowledge base, including but not limited to graduate students, Ph.D. students, postdocs, etc.

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