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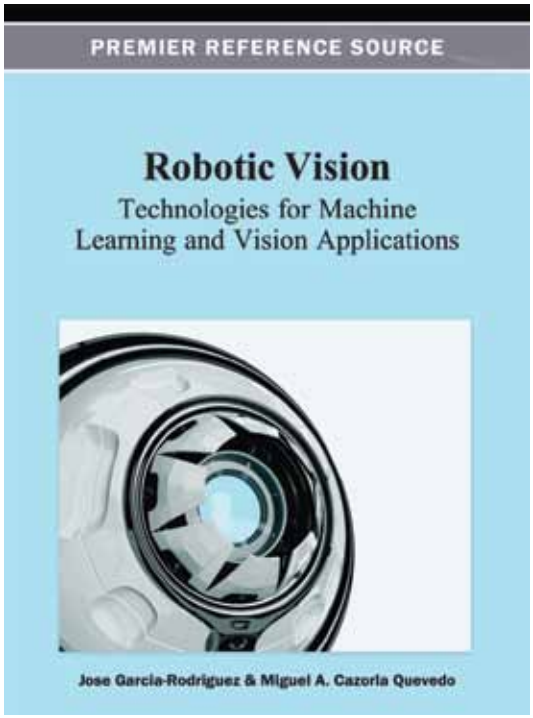
Robotic Vision: Technologies for Machine Learning and Vision Applications



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Robotic systems consist of object or scene recognition, vision-based motion control, vision-based mapping, and dense range sensing, and are used for identification and navigation. As these computer vision and robotic connections continue to develop, the benefits of vision technology including savings, improved quality, reliability, safety, and productivity are revealed.

Robotic Vision: Technologies for Machine Learning and Vision Applications is a comprehensive collection which highlights a solid framework for understanding existing work and planning future research. This book includes current research on the fields of robotics, machine vision, image processing and pattern recognition that is important to applying machine vision methods in the real world.

Topics Covered:

- Computer Vision
- Face Recognition
- Human Robot Interaction
- Multi-Component Robotic Systems
- Task Learning for Robots
- Visual Control
- Visual Detection
- Visual Learning in Robots

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