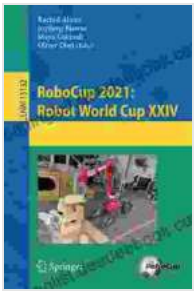
Robot World Cup XX: Lecture Notes in Computer Science 9776

This book constitutes the proceedings of the 20th Robot World Cup, held in Sydney, Australia, in July 2015. The 65 revised full papers presented in this book were carefully reviewed and selected from 104 submissions. The papers are organized in 9 sections: social robotics, task and behavior planning, robot learning, multi-robot systems, perception and mapping, robot control, human-robot interaction, swarm robots and self-organizing systems, and ethics and education in robotics.



RoboCup 2024: Robot World Cup XX (Lecture Notes in Computer Science Book 9776) by Annette Laing

★★★★★ 5 out of 5

Language	: English
File size	: 43571 KB
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Grade level	: Preschool - 2
Item Weight	: 0.096 ounces
Dimensions	: 6 x 0.06 x 7 inches

Social Robotics

The first section of the book is dedicated to social robotics. This section contains 10 papers that cover a wide range of topics, including human-

robot interaction, social learning, and robot ethics.

- Human-Robot Interaction for Collaborative Object Manipulation
- Social Learning in Robots: A Survey
- Robot Ethics: A Survey

Task and Behavior Planning

The second section of the book is dedicated to task and behavior planning. This section contains 12 papers that cover a wide range of topics, including path planning, motion planning, and task allocation.

- Path Planning for Robots in Dynamic Environments
- Motion Planning for Robots with Complex Constraints
- Task Allocation for Multi-Robot Systems

Robot Learning

The third section of the book is dedicated to robot learning. This section contains 10 papers that cover a wide range of topics, including reinforcement learning, machine learning, and deep learning.

- Reinforcement Learning for Robots
- Machine Learning for Robots
- Deep Learning for Robots

Multi-Robot Systems

The fourth section of the book is dedicated to multi-robot systems. This section contains 10 papers that cover a wide range of topics, including swarm robotics, cooperative robotics, and multi-robot coordination.

- Swarm Robotics: A Survey
- Cooperative Robotics: A Survey
- Multi-Robot Coordination: A Survey

Perception and Mapping

The fifth section of the book is dedicated to perception and mapping. This section contains 8 papers that cover a wide range of topics, including computer vision, sensor fusion, and SLAM.

- Computer Vision for Robots
- Sensor Fusion for Robots
- SLAM for Robots

Robot Control

The sixth section of the book is dedicated to robot control. This section contains 7 papers that cover a wide range of topics, including robot kinematics, robot dynamics, and robot control architectures.

- Robot Kinematics: A Survey
- Robot Dynamics: A Survey
- Robot Control Architectures: A Survey

Human-Robot Interaction

The seventh section of the book is dedicated to human-robot interaction. This section contains 5 papers that cover a wide range of topics, including human-robot communication, human-robot collaboration, and human-robot trust.

- Human-Robot Communication: A Survey
- Human-Robot Collaboration: A Survey
- Human-Robot Trust: A Survey

Swarm Robots and Self-Organizing Systems

The eighth section of the book is dedicated to swarm robots and self-organizing systems. This section contains 5 papers that cover a wide range of topics, including swarm robotics, self-organizing systems, and collective behavior.

- Swarm Robotics: A Survey
- Self-Organizing Systems: A Survey
- Collective Behavior: A Survey

Ethics and Education in Robotics

The ninth and final section of the book is dedicated to ethics and education in robotics. This section contains 3 papers that cover a wide range of topics, including the ethical implications of robotics, the role of ethics in robotics education, and the importance

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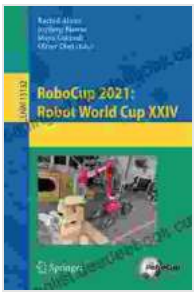

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