

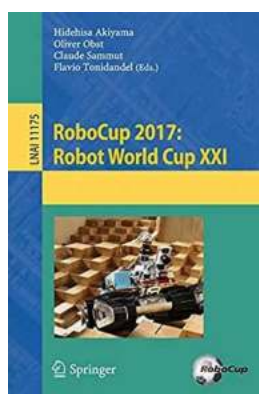
# The Exciting Journey of Robot World Cup XXI: Lecture Notes in Computer Science 11175

Robots have always been a fascinating creation of science fiction, but in the real world, they play a vital role in various industries and competitions, such as the Robot World Cup. The Robot World Cup XXI, also known as the RoboCup, is an international event that brings together robotics enthusiasts, researchers, and professionals from around the globe.

## Introducing RoboCup

The RoboCup was first organized in 1997 to promote robotics and artificial intelligence research. Its primary objective is to develop autonomous robots capable of playing soccer against one another. Over the years, this event has expanded to include other challenging domains such as rescue, industrial, and home applications. The RoboCup Federation operates under the umbrella of the International RoboCup Association.

RoboCup comprises several leagues with varying degrees of complexity, each focusing on different aspects of robotics. These leagues include:



## RoboCup 2017: Robot World Cup XXI (Lecture Notes in Computer Science Book 11175)

by Course Hero (1st ed. 2018 Edition, Kindle Edition)

★★★★☆ 4.2 out of 5

Language	: English
File size	: 31236 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 784 pages



- RoboCup Soccer: The soccer league focuses on autonomous team behavior, cooperation, and strategies to compete against opposing teams.
- RoboCup Rescue: The rescue league aims to develop robots proficient in reconnaissance, mapping, and evacuation tasks in emergency situations.
- RoboCup@Home: This league focuses on developing robotic systems capable of assisting humans in daily life activities, such as home cleaning, grocery shopping, and more.
- RoboCup Industrial: The industrial league is focused on enhancing robotic capabilities for manufacturing, automation, and logistics tasks in industrial settings.

## **Role of Lecture Notes in Computer Science 11175 in RoboCup**

Lecture Notes in Computer Science (LNCS) is a renowned series of books that covers research in various areas of computer science. LNCS provides a platform for researchers to present their work and exchange ideas with the global scientific community. LNCS 11175 is a special volume dedicated to the proceedings of the Robot World Cup XXI.

This book contains a collection of research papers presented at the conference, highlighting the latest advancements in robotics, artificial intelligence, and related fields. The lecture notes cover a wide range of topics, including perception, motion planning, learning, human-robot interaction, and more.

The Robot World Cup offers researchers a unique opportunity to showcase their breakthroughs and innovations in the field of robotics. The papers published in

LNCS 11175 shed light on cutting-edge techniques, algorithms, and methodologies that have been implemented in the participating robots.

Moreover, the lecture notes provide valuable insights into the challenges faced by the robotics community and the potential solutions being explored. Through these papers, researchers can learn from each other's experiences, collaborate, and pave the way for future advancements.

## **The Impact of RoboCup and LNCS 11175**

The Robot World Cup and Lecture Notes in Computer Science 11175 have had a significant impact on the field of robotics. They have spurred innovation, collaboration, and propelled research in artificial intelligence, machine learning, and robotic technologies.

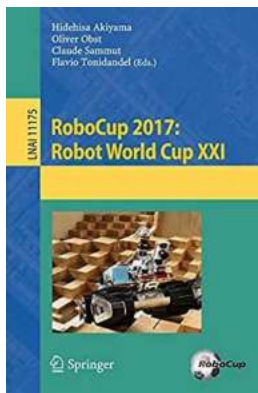
RoboCup has been instrumental in the development of autonomous robots capable of performing complex tasks. Through the competitions, researchers and engineers have been able to push the boundaries of what robots can achieve.

LNCS 11175, with its rich collection of research papers, has become a valuable resource for anyone interested in robotics and related fields. It serves as a reference for researchers, students, and professionals looking to stay up-to-date with the latest advancements and trends in the field.

## **In**

The Robot World Cup XXI and Lecture Notes in Computer Science 11175 together create an exciting platform for the world of robotics. They inspire innovation, foster collaboration, and contribute to the advancements in the field. Through the RoboCup competitions and LNCS publications, researchers and enthusiasts alike continue to drive the progress of robotics and artificial

intelligence, paving the way for a future where robots play an increasingly important role in our lives.



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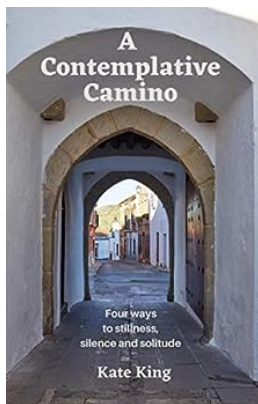
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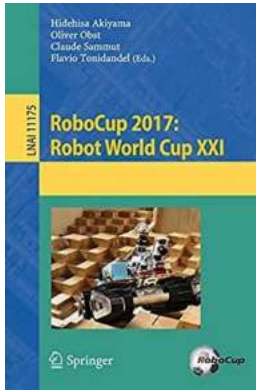


This book includes the post-conference proceedings of the 21st RoboCup International Symposium, held in Nagoya, Japan, in September 2017. The 33 full revised papers and 9 papers from the winning teams presented were carefully reviewed and selected from 58 submissions. The papers are organized on topical sections on Robotics, Artificial intelligence, Environment perception, State estimation and much more.



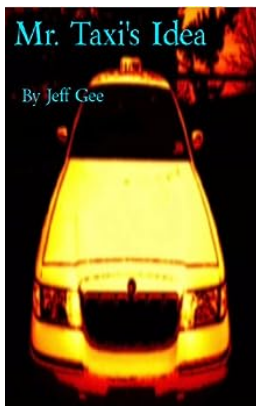
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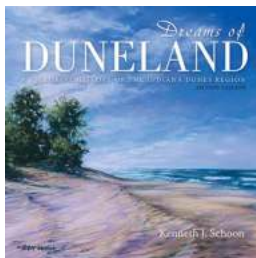
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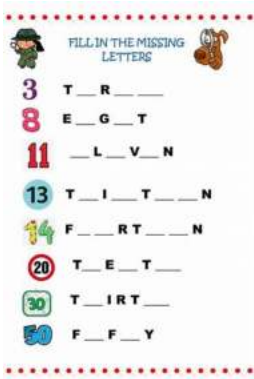
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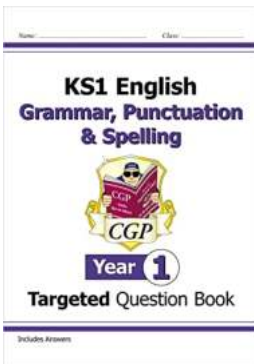
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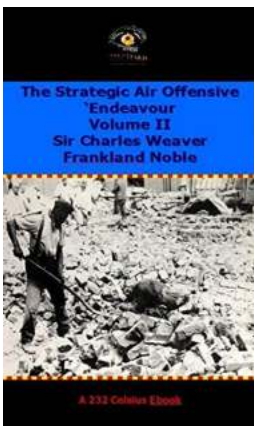
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