



## The 2005 DARPA Grand Challenge [ The Great Robot Race /

Buehler, Martin

Springer Berlin Heidelberg,  
2007

Monografía

The DARPA Grand Challenge was a landmark in the field of robotics: a race by autonomous vehicles through 132 miles of rough, cross-country Nevada terrain that showcased exciting and unprecedented capabilities in robotic perception, navigation, and control. The event took place in October 2005, and drew teams of competitors from academia and industry, and many garage hobbyists. This book presents fifteen technical papers that are written at a level that makes them easily accessible to a broad technical audience, describing the technology behind most of the robotic vehicles that participated in this famous race. The papers describe each team's driverless vehicle, race strategy, and insights. As a whole, they present the state of the art in autonomous vehicle technology, and offer a glimpse of future technology for tomorrow's driverless cars. This book will serve as an authoritative, archival source for the DARPA Grand Challenge and a must have for robotics students and researchers, since it describes the state of the art in perception, planning and control

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTQwMDkxMzc>

**Título:** The 2005 DARPA Grand Challenge Recurso electrónico-En línea] :] The Great Robot Race edited by Martin Buehler, Karl Iagnemma, Sanjiv Singh

**Editorial:** Berlin, Heidelberg Springer Berlin Heidelberg 2007

**Descripción física:** XLI, 522 p. digital

**Tipo Audiovisual:** Engineering Artificial intelligence Systems theory Engineering Control Engineering Automation and Robotics Artificial Intelligence (incl. Robotics) Machinery and Machine Elements Systems Theory, Control

**Mención de serie:** Springer Tracts in Advanced Robotics 1610-7438 36

**Documento fuente:** Springer eBooks

**Nota general:** Engineering (Springer-11647)

**Contenido:** Cornell University's 2005 DARPA Grand Challenge Entry -- SciAutonics - Auburn Engineering's Low Cost, High Speed ATV for the 2005 DARPA Grand Challenge -- The Golem Group / UCLA Autonomous Ground Vehicle in the DARPA Grand Challenge -- Team CIMAR's NaviGATOR: An Unmanned Ground Vehicle for Application to the 2005 DARPA Grand Challenge -- A Robust Approach to High-Speed Navigation for

Unrehearsed Desert Terrain -- KAT-5: Robust systems for autonomous vehicle navigation in challenging and unknown terrain -- CajunBot: Architecture and Algorithms -- The Winning Robot Stanley -- The TerraMax Autonomous Vehicle -- Virginia Tech\2019s Twin Contenders: A Comparative Study of Reactive and Deliberative Navigation -- Intelligent Off-road Navigation Algorithms and Strategies of Team Desert Buckeyes in the DARPA Grand Challenge '05 -- Prospect Eleven: Princeton University's Entry in the 2005 DARPA Grand Challenge -- Cornell University's 2005 DARPA Grand Challenge Entry -- Alice: An Information-Rich Autonomous Vehicle for High-Speed Desert Navigation -- MITRE Meteor: An Off-Road Autonomous Vehicle for DARPA\2019s Grand Challenge

**Restricciones de acceso:** Accesible sólo para usuarios de la UPV

**Tipo recurso electrónico:** Recurso a texto completo

**Detalles del sistema:** Forma de acceso: Web

**ISBN:** 9783540734291 978-3-540-73429-1

**Autores:** Iagnemma, Karl Singh, Sanjiv

**Entidades:** SpringerLink (Servicio en línea)

**Enlace a formato físico adicional:** Printed edition 9783540734284

**Punto acceso adicional serie-Título:** Springer Tracts in Advanced Robotics 1610-7438 36

---

## **Baratz Innovación Documental**

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es