

# Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science)

From Brand: Springer

Download now

Read Online →

## **Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science)** From Brand: Springer

*Intelligent Unmanned Ground Vehicles* describes the technology developed and the results obtained by the Carnegie Mellon Robotics Institute in the course of the DARPA Unmanned Ground Vehicle (UGV) project. The goal of this work was to equip off-road vehicles with computer-controlled, unmanned driving capabilities. The book describes contributions in the area of mobility for UGVs including: tools for assembling complex autonomous mobility systems; on-road and off-road navigation; sensing techniques; and route planning algorithms. In addition to basic mobility technology, the book covers a number of integrated systems demonstrated in the field in realistic scenarios. The approaches presented in this book can be applied to a wide range of mobile robotics applications, from automated passenger cars to planetary exploration, and construction and agricultural machines.

*Intelligent Unmanned Ground Vehicles* shows the progress that was achieved during this program, from brittle specially-built robots operating under highly constrained conditions, to groups of modified commercial vehicles operating in tough environments. One measure of progress is how much of this technology is being used in other applications. For example, much of the work in road-following, architectures and obstacle detection has been the basis for the Automated Highway Systems (AHS) prototypes currently under development. AHS will lead to commercial prototypes within a few years. The cross-country technology is also being used in the development of planetary rovers with a projected launch date within a few years. The architectural tools built under this program have been used in numerous applications, from an automated harvester to an autonomous excavator.

The results reported in this work provide tools for further research development leading to practical, reliable and economical mobile robots.

 [Download Intelligent Unmanned Ground Vehicles: Autonomous N...pdf](#)

 [Read Online Intelligent Unmanned Ground Vehicles: Autonomous...pdf](#)

# Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science)

*From Brand: Springer*

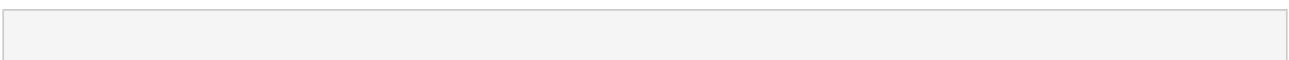
**Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer**

*Intelligent Unmanned Ground Vehicles* describes the technology developed and the results obtained by the Carnegie Mellon Robotics Institute in the course of the DARPA Unmanned Ground Vehicle (UGV) project. The goal of this work was to equip off-road vehicles with computer-controlled, unmanned driving capabilities. The book describes contributions in the area of mobility for UGVs including: tools for assembling complex autonomous mobility systems; on-road and off-road navigation; sensing techniques; and route planning algorithms. In addition to basic mobility technology, the book covers a number of integrated systems demonstrated in the field in realistic scenarios. The approaches presented in this book can be applied to a wide range of mobile robotics applications, from automated passenger cars to planetary exploration, and construction and agricultural machines.

*Intelligent Unmanned Ground Vehicles* shows the progress that was achieved during this program, from brittle specially-built robots operating under highly constrained conditions, to groups of modified commercial vehicles operating in tough environments. One measure of progress is how much of this technology is being used in other applications. For example, much of the work in road-following, architectures and obstacle detection has been the basis for the Automated Highway Systems (AHS) prototypes currently under development. AHS will lead to commercial prototypes within a few years. The cross-country technology is also being used in the development of planetary rovers with a projected launch date within a few years. The architectural tools built under this program have been used in numerous applications, from an automated harvester to an autonomous excavator. The results reported in this work provide tools for further research development leading to practical, reliable and economical mobile robots.

**Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer**  
**Bibliography**

- Sales Rank: #11309667 in Books
- Brand: Brand: Springer
- Published on: 1996-12-31
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .75" w x 6.14" l, 1.39 pounds
- Binding: Hardcover
- 309 pages



 [Download Intelligent Unmanned Ground Vehicles: Autonomous N...pdf](#)

 [Read Online Intelligent Unmanned Ground Vehicles: Autonomous ...pdf](#)

**Download and Read Free Online Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer**

---

**Editorial Review**

**Users Review**

**From reader reviews:**

**Sheila Gallagher:**

This Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) book is absolutely not ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is usually information inside this publication incredible fresh, you will get information which is getting deeper anyone read a lot of information you will get. That Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) without we know teach the one who reading it become critical in contemplating and analyzing. Don't end up being worry Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) can bring if you are and not make your carrier space or bookshelves' turn into full because you can have it in the lovely laptop even telephone. This Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) having very good arrangement in word as well as layout, so you will not feel uninterested in reading.

**Betty Johnston:**

Playing with family in a park, coming to see the coastal world or hanging out with pals is thing that usually you might have done when you have spare time, and then why you don't try thing that really opposite from that. A single activity that make you not feeling tired but still relaxing, trilling like on roller coaster you have been ride on and with addition info. Even you love Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science), it is possible to enjoy both. It is very good combination right, you still desire to miss it? What kind of hang type is it? Oh come on its mind hangout guys. What? Still don't get it, oh come on its called reading friends.

**Antonio Nelson:**

Don't be worry in case you are afraid that this book may filled the space in your house, you can have it in e-book approach, more simple and reachable. This kind of Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) can give you a lot of pals because by you investigating this one book you have matter that they don't and make you more like an interesting person. This particular book can be one of a step for you to get success. This e-book offer you information that perhaps your friend doesn't realize, by knowing more than other make you to be great individuals. So , why hesitate? Let me have Intelligent Unmanned

Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science).

**Pearl Moore:**

Reserve is one of source of understanding. We can add our knowledge from it. Not only for students but native or citizen require book to know the update information of year for you to year. As we know those books have many advantages. Beside all of us add our knowledge, can bring us to around the world. Through the book Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) we can take more advantage. Don't one to be creative people? For being creative person must want to read a book. Only choose the best book that ideal with your aim. Don't be doubt to change your life by this book Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science). You can more inviting than now.

**Download and Read Online Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer #TD2PV780I65**

# **Read Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer for online ebook**

Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer books to read online.

## **Online Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer ebook PDF download**

**Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer Doc**

**Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer Mobipocket**

**Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer EPub**

**TD2PV780I65: Intelligent Unmanned Ground Vehicles: Autonomous Navigation Research at Carnegie Mellon (The Springer International Series in Engineering and Computer Science) From Brand: Springer**