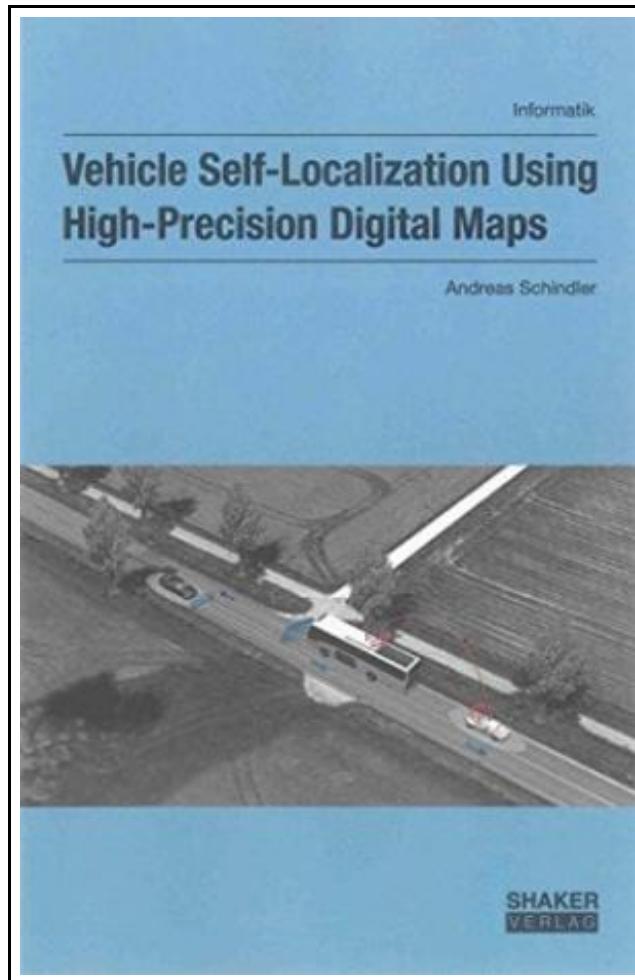


## Vehicle Self-Localization Using High-Precision Digital Maps



Filesize: 3.46 MB

### Reviews

*I just began looking over this pdf. It is amongst the most remarkable publication i have got study. I am pleased to let you know that this is the greatest book i have got read inside my personal life and can be he very best pdf for at any time.*

*(Dr. Davonte Schmidt MD)*

## VEHICLE SELF-LOCALIZATION USING HIGH-PRECISION DIGITAL MAPS

[DOWNLOAD PDF](#)

To get **Vehicle Self-Localization Using High-Precision Digital Maps** PDF, you should follow the web link listed below and save the file or gain access to additional information which might be relevant to VEHICLE SELF-LOCALIZATION USING HIGH-PRECISION DIGITAL MAPS ebook.

Shaker Verlag Nov 2013, 2013. Buch. Book Condition: Neu. Neuware - In recent years, driver assistance systems have contributed significantly to the reduction of traffic accidents and the mitigation of crash consequences. Wireless communication technologies as well as sensor data fusion methods across vehicles enable cooperative assistance functions. However, the consistent integration of environment models and the subsequent interpretation of traffic situations impose high requirements on the self-localization accuracy of vehicles. State of the art technologies are often not effective enough for these purposes or they are too expensive for a series application. This thesis presents methods and models for a landmark-based vehicle self-localization approach. The basic idea is to associate information from the vehicular environment perception with data of a high-precision digital map in order to deduce the vehicle's position. Since no digital map with the required precision and level of detail is available at present, a new concept for the generation of high-precision maps is proposed. The probabilistic self-localization strategy, which fuses data from a video camera, laser scanner, GPS and intrinsic vehicular measurements in a particle filter framework, satisfies the accuracy requirements defined by the applications. It is shown that a global localization accuracy significantly below one meter and an orientation accuracy below one degree can be reached even at a speed up to 100 km/h in real-time using the methods presented. The map model is based on smooth arc splines, which are curves composed by smoothly joint circular arcs and line segments. For any given maximal tolerance, the applied curve approximation method generates a smooth arc spline with a minimum number of segments. These properties are most valuable for digital maps since they imply the checkability of accuracy of map elements as well as the minimization of data volume required for storing the map. Also, the...

[Read Vehicle Self-Localization Using High-Precision Digital Maps Online](#)[Download PDF Vehicle Self-Localization Using High-Precision Digital Maps](#)

## Other eBooks

---



### [PDF] Programming in D

Follow the link listed below to download "Programming in D" PDF document.

[Read Document »](#)

---



### [PDF] Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)

Follow the link listed below to download "Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)" PDF document.

[Read Document »](#)

---



### [PDF] Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success

Follow the link listed below to download "Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success" PDF document.

[Read Document »](#)

---



### [PDF] TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2)(Chinese Edition)

Follow the link listed below to download "TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2)(Chinese Edition)" PDF document.

[Read Document »](#)

---



### [PDF] TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)

Follow the link listed below to download "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)" PDF document.

[Read Document »](#)

---



### [PDF] TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

Follow the link listed below to download "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" PDF document.

[Read Document »](#)