

## Bio-Inspired, Odor-Based Navigation

Filesize: 3.47 MB

## Reviews

A top quality pdf and also the font applied was fascinating to learn. it was actually writtern extremely properly and valuable. I discovered this publication from my i and dad recommended this publication to find out. (Jan Schowalter)

## **BIO-INSPIRED, ODOR-BASED NAVIGATION**



To get **Bio-Inspired**, **Odor-Based Navigation** PDF, you should access the hyperlink beneath and download the document or get access to additional information that are related to BIO-INSPIRED, ODOR-BASED NAVIGATION ebook.

Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x11 mm. This item is printed on demand - Print on Demand Neuware - The ability of many insects, especially moths, to locate either food or a member of the opposite sex, by tracking a wind-borne plume of odor molecules, is an amazing reality. Numerous scenarios exist where having this capability embedded intoground-based or aerial vehicles would be invaluable. The main crux of this thesisinvestigation is the development of a navigation algorithm which gives a UAV theability to track a chemical plume to its source. Inspiration from the male moth's, in particular Manduca sexta (Tobacco Hornworm moth), ability to successfully tracka female's pheromone plume was used in the design of both 2-D and 3-D naviga-tion algorithms. The algorithms were developed to guide autonomous vehicles to asource generating an odor/chemical plume, using only the odor/chemical informationprovided by the plume. The algorithms, was developed to estimate the location of a vehicle relative to the plume:coming into the plume, in the plume, exiting the plume, or out of the plume. Analysisof plume detections within a short-term memory bank provided the basis for thiscontroller. To test these algorithms, 2-D and 3-D simulation environments were developed. 188 pp. Englisch.

Read Bio-Inspired, Odor-Based Navigation Online
Download PDF Bio-Inspired, Odor-Based Navigation

## You May Also Like

$\rightarrow$

[PDF] Because It Is Bitter, and Because It Is My Heart (Plume) Click the web link below to read "Because It Is Bitter, and Because It Is My Heart (Plume)" PDF document. Read eBook »

$\rightarrow$

[PDF] Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products Click the web link below to read "Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products" PDF document. Read eBook »

$\rightarrow$

[PDF] Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success Click the web link below to read "Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success" PDF document. Read eBook >

$\rightarrow$	

[PDF] Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English] Click the web link below to read "Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and

Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]" PDF document. Read eBook »

$\rightarrow$
1

[PDF] Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]

Click the web link below to read "Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]" PDF document. Read eBook »

$\rightarrow$

[PDF] Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age Click the web link below to read "Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age" PDF document.

Read eBook »