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This book is great. I have go through and so i am confident that i will going to read through once again again in the future. I am just easily can get a satisfaction of looking at a written book. (Miss Vernie Schimmel)

BIO-INSPIRED, ODOR-BASED NAVIGATION (PAPERBACK)



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Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. 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 develope.

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