


[DOWNLOAD](#)


A Monocular Vision Based Approach to Flocking

By Brian P. Kirchner

BiblioScholar. Paperback. Condition: New. 84 pages. Dimensions: 9.7in. x 7.4in. x 0.2in. Flocking is seen in nature as a means for self protection, more efficient foraging, and other search behaviors. Although much research has been done regarding the application of this principle to autonomous vehicles, the majority of the research has relied on GPS information, broadcast communication, an omniscient central controller, or some other form of global knowledge. This approach, while effective, has serious drawbacks, especially regarding stealth, reliability, and biological grounding. This research effort uses three Pioneer P2-AT8 robots to achieve flocking behavior without the use of global knowledge. The sensory inputs are limited to two cameras, offset such that the area of stereo vision is minimal, thus making stereo image analysis techniques effectively impossible, but allowing a much larger effective field of vision. The flocking algorithm analyzes these images and updates each robots velocity vector according to the relative position, heading, and speed of its nearest neighbor. The result of this velocity update is an eventual stabilization of speed and heading, resulting in a coherent, stable flock, demonstrated in both software simulation and in hardware. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN...



[READ ONLINE](#)

[4.4 MB]

Reviews

This book is great. it was writtern quite flawlessly and helpful. You will not truly feel monotony at whenever you want of your time (that's what catalogs are for concerning if you ask me).

-- *Sterling Kris*

The very best publication i at any time read through. I actually have go through and i am confident that i am going to planning to read through once more once more down the road. I found out this ebook from my i and dad advised this publication to learn.

-- *Emie Wuckert*

Other eBooks



[Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .](#)

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...



[My Life as an Experiment: One Man s Humble Quest to Improve Himself by Living as a Woman, Becoming George Washington, Telling No Lies, and Other Radical Tests](#)

SIMON SCHUSTER, United States, 2010. Paperback. Book Condition: New. Reprint. 212 x 138 mm. Language: English . Brand New Book. One man. Ten extraordinary quests. Bestselling author and human guinea pig A. J. Jacobs puts his life to the test and reports...



[Self Esteem for Women: 10 Principles for Building Self Confidence and How to Be Happy in Life \(Free Living, Happy Life, Overcoming Fear, Beauty Secrets, Self Concept\)](#)

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Self Esteem for Women 10 Principles for building self confidence and how to be happy in life (free living, happy...



[Is It Ok Not to Believe in God?: For Children 5-11](#)

Createspace, United States, 2014. Paperback. Book Condition: New. Large Print. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.A short story about an 8 year old girl called Tia, who is bullied at school because she...



[Some of My Best Friends Are Books : Guiding Gifted Readers from Preschool to High School](#)

Book Condition: Brand New. Book Condition: Brand New.



[Fun to Learn Bible Lessons Preschool 20 Easy to Use Programs Vol 1 by Nancy Paulson 1993 Paperback](#)

Book Condition: Brand New. Book Condition: Brand New.