

ALL DATABASES

<< Back to results list

Record 2 of 15

Record from Web of Science®

Emergent Exploration and Resource Gathering in Collaborative Robotic Environments

Print | E-mail | Add to Marked List | more options

Author(s): Cioarga R (Cioarga, Razvan)¹, Nalatan I (Nalatan, Iuliana)¹, Tura-Bob S (Tura-Bob, Sergiu)¹, Micea M (Micea, Mihai)¹, Cretu V (Cretu, Vladimir)¹, Biriescu M (Biriescu, Marius), Groza V (Groza, Voicu)

Book Group Author(s): IEEE

Source: 2008 INTERNATIONAL WORKSHOP ON ROBOTIC AND SENSORS ENVIRONMENTS **Pages:** 13-18 **Published:** 2008

Times Cited: 0 **References:** 14 Citation Map

Conference Information: IEEE International Workshop on Robotic and Sensors Environment
Ottawa, CANADA, OCT 17-18, 2008
IEEE

Abstract: The last years demonstrated a significant increase in the interest for emergent, collaborative robotics as a viable alternative to the more centralized classic approach. The design and implementation of a system of numerous cheaper robots have become more attractive than the construction of a larger, more expensive robot. This paper describes the algorithm which is used by a collaborative system of autonomous robots to find food sources (resources) on an unknown territory. As a case study, the implementations of this algorithm using a robotic collective composed of LEGO Mindstorm robots is discussed in this article. Some of the more interesting experimental results are also presented.

Document Type: Proceedings Paper

Language: English

Author Keywords: Emergent behavior; collective robotics; resource gathering; exploration

Reprint Address: Cioarga, R (reprint author), Politehn Univ Timisoara, DCSE, 2 Vasile Parvan Blvd, Timisoara 300223, Romania

Addresses:
1. Politehn Univ Timisoara, DCSE, Timisoara 300223, Romania

Publisher: IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA

IDS Number: BJB83

ISBN: 978-1-4244-2594-5

ISI: 000264584500003

<< Back to results list

Record 2 of 15

Record from Web of Science®

Output Record

Step 1:

- Authors, Title, Source
- plus Abstract
- Full Record

Step 2:

[How do I export to bibliographic management software?]

Print | E-mail | Add to Marked List
Save to EndNote, RefMan, ProCite

Cited by: 0

This article has been cited 0 times (from Web of Science).

Create Citation Alert

Related Records:

Find similar records based on shared references (from Web of Science).

[view related records]

References: 14

View the bibliography of this record (from Web of Science).

Additional information

View this record in other databases:

- View citation data (in Web of Science)

plus Cited Reference

Save to other Reference Software

Save

View in English

Please give us your [feedback](#) on using ISI Web of Knowledge.

[Acceptable Use Policy](#)
Copyright © 2009 Thomson Reuters



THOMSON REUTERS

Published by Thomson Reuters