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Fish Shoal Inspired Movement in Robotic Collectives

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Book Group Author(s): IEEE

Source: 2008 INTERNATIONAL WORKSHOP ON ROBOTIC AND SENSORS ENVIRONMENTS **Pages:** 7-12 **Published:** 2008

Times Cited: 0 **References:** 17 [Citation Map](#)

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

Abstract: Robotic collectives are used for the efficient achievement efficient of complex tasks. There is a significant increase in the interest for emergent, collaborative robotics as a viable alternative to the more centralized classic approach as the dimensions, energy consumption and especially price are becoming required constraints. This paper describes a nature inspired algorithm intended for the movement and communication of such robotic collectives. As a case study, the implementation of the emergent algorithm on a system consisting of LEGO Mindstorm Robots is further discussed along with some of the most interesting experimental results.

Document Type: Proceedings Paper

Language: English

Author Keywords: collective robotics; emergent behavior; nature inspired movement

KeyWords Plus: SIMULATION; SCHOOLS

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

IDS Number: BJB83

ISBN: 978-1-4244-2594-5

Cited by: 0

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