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Movement in Collaborative Robotic Environments Based on the Fish Shoal Emergent Patterns Cioarga, Razvan; Micea, Mihai V; Cretu, Vladimir; Petriu, Emil M. **Sensors & Transducers, suppl. Special Issue** 5 (Mar 2009): 18-36.

■ Abstract (summary)

Robotic collectives are used for the efficient achievement 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 the most interesting experimental results. [PUBLICATION ABSTRACT]

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