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Fish Shoal Inspired Movement in Robotic Collectives

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Author(s): Cioarga R (Cioarga, Razvan)[1], Panus B (Panus, Bogdan)[1], Oancea C (Oancea, Claudia)[1], Micea MV (Micea, Mihai V.)[1], Cretu V (Cretu, Vladimir)[1], Petriu E (Petriu, Emil)

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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.

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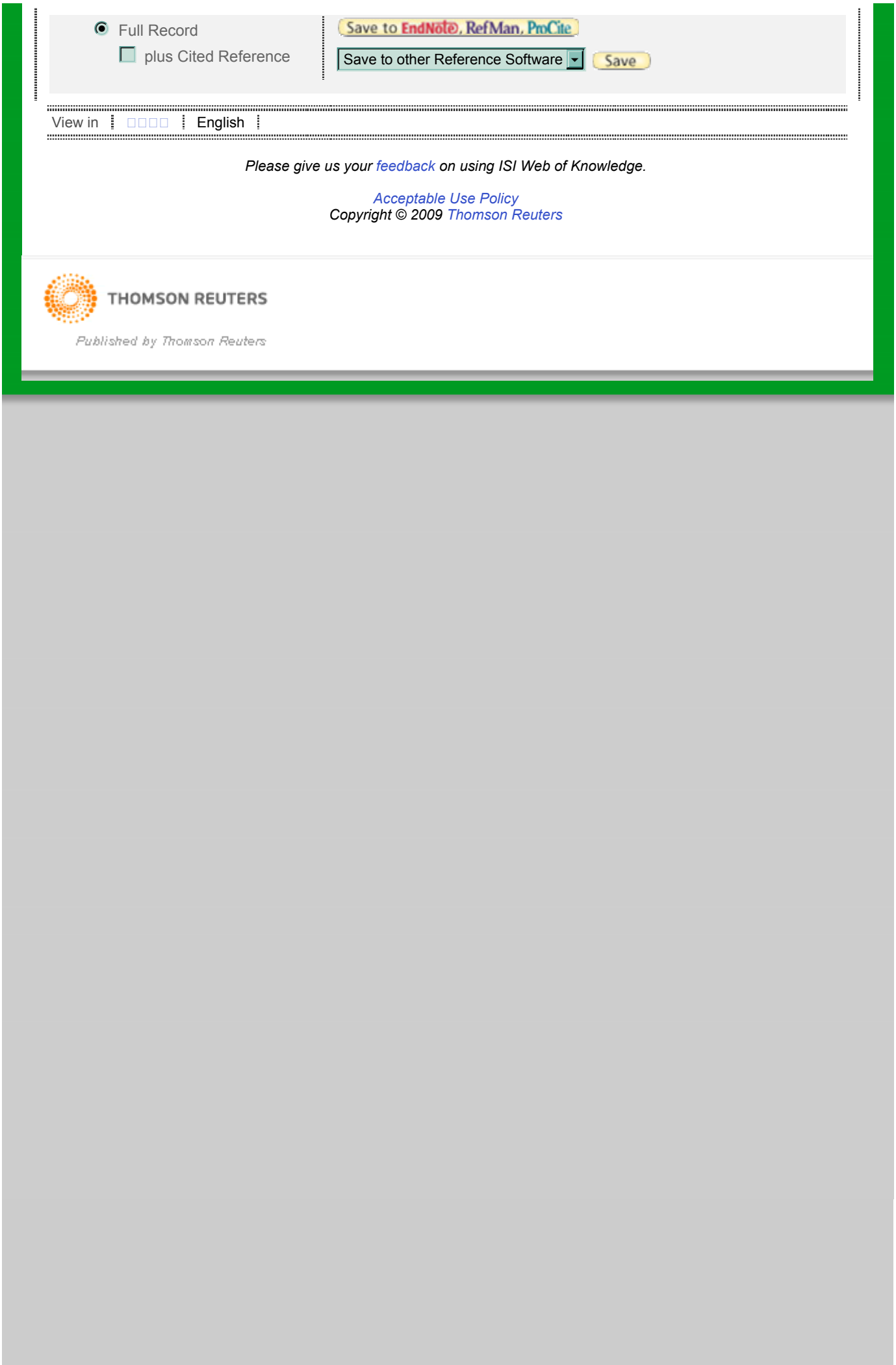
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