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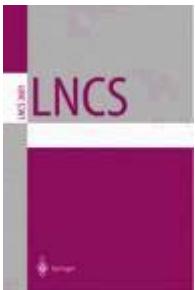
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English

Book Chapter**Evaluating Learning Automata as a Model for Cooperation in Complex Multi-agent Domains**

Book Series	Lecture Notes in Computer Scienc
Publisher	Springer Berlin / Heidelberg
ISSN	0302-9743 (Print) 1611-3349 (Or
Volume	Volume 4434/2007
Book	RoboCup 2006: Robot Soccer Wo
DOI	Cup X 10.1007/978-3-540-74024-7
Copyright	2007
ISBN	978-3-540-74023-0
DOI	10.1007/978-3-540-74024-7_40
Pages	410-417
Subject Collection	Computer Science
SpringerLink Date	Tuesday, September 04, 2007



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Abstract

Learning automata act in a stochastic environment and are able to update their action probabilities considering the inputs from their environment, so optimizing their functionality as a result. In this paper, the goal is to investigate and evaluate the application of learning automata to cooperation in multi-agent systems, using soccer simulation server as a test bed. We have also evaluated our learning method in hard situations such as malfunctioning of some of the agents in the team and in situations that agents' sense/act abilities have a lot of noise involved. Our experiment results show that learning automata adapt well with these situations.

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