



> Home / Publication / Volume /

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[Previous article](#)[Next article](#)

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Social Control Mechanisms to Coordinate an Unreliable Agent Society

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Abstract

In multiagent systems a common problem is how to assign tasks to other agents. It is very desirable to be able to guarantee the error rate of a solution in a multiagent system's society. In this paper, a novel approach for this problem has been introduced by devising social control mechanisms, analyzing their mathematical models and simulating and comparing them. It is also shown that the open multiagent society is modeled and coordinated in this way and is able to achieve any desired and predetermined threshold of correctness for the final solution, regardless of the performance of selfish and unreliable agents in the society or any stipulation about their honesty. This is extremely critical and problematic in the design of coordinated multiagent societies, today.

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