

## APPLYING REINFORCED LEARNING FOR SOLVING THE PROBLEM OF STRUCTURING THE EXTERNAL ENVIRONMENT

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*The paper is concerned with the problem of structuring the external environment. The proposed approach is based on a reinforcement learning method that trains a multi-agent neural network. A feature of the approach is that the structuring of environment is carried out by a team of robots that can interact with each other through messages. The formalized formulation of training problem is proposed.*

**Keywords:** multiagent neural network, multiagent system, robotic systems, collective behavior.

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