MODERN STATE OF RESEARCH IN THE THEORY OF TARGETED COLLECTIVE BEHAVIOR OF INTELLECTUAL ROBOTS GROUP

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The paper analyzes the existing trends in the theory of targeted collective behavior of a group of robots. The main results in the presented areas with a description of the advantages and disadvantages of research methods are presented. It is proposed to combine the existing theoretical developments of various areas in the theory of group management and decision-making with the aim of building effective computational abstractions, models and mathematical methods of purposeful collective behavior of autonomous robots.

Keywords: collective behavior, intelligent systems, robots, robotic systems, decision-making and control systems.

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