

## EFFECTIVE FUNCTIONING OF A COLLABORATIVE ROBOTIC SYSTEM IN A SHARED WORKSPACE

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*This paper discusses the functioning of a collaborative robotic system (CRS), which includes both collaborative robots (cobots) and humans. Group control methods and algorithms are proposed to solve the problem of increasing the efficiency of human-robot interaction. The paper examines the principles of the formation of a CRS and methods of tasks distribution among the elements of the system. The proposed structural scheme of the CRS control system takes into account both the indeterminacy of the environment and the lack of posteriori information.*

**Keywords:** collaborative robotic system, collaborative robot, human-robot interaction, group control.

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