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AUTONOMOUS ROBOT FOR RECYCLABLE WASTE COLLECTION

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Abstract – The garbage is a real problem, solving this problem means to find it, collect it and to depose it. In this article we propose a solution for building a robot which is capable of find, collect and depose the garbage. The robot is complete autonomous, it can orientate in the field – outside in an open field, it can pick different tips of garbage, it can distinguish what it collects and finally it depose the garbage in the indicated places – each type of garbage must be deposited in a different bin according to the type.

Keywords Autonomous robot, target detection, self-oriented motion