

PROSPECTS FOR THE USE OF UNMANNED DEVICES IN SOLVING APPLIED PROBLEMS IN THE AGRICULTURAL INDUSTRY

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The work is devoted to the consideration and implementation of modern, innovative methods of processing crops. Robotization of agriculture is a means of increasing the efficiency of production, as well as a means of adapting the enterprise to changes in the social, economic, ecologic environment. An example of the introduction of robotization is the large-scale use of unmanned aerial vehicles (UAVs). The material on the use of unmanned aerial vehicles in agriculture is presented. The factors influencing such an important aspect of plant protection technologies as spraying are analyzed. The prospects for the use of unmanned aerial devices in solving applied problems with the aim of developing industries are identified. The article calculates the use of unmanned aerial vehicles in the agricultural industry, using the DLI Agras mg-1 octocopter unmanned aerial vehicle as an example. Using this method of spraying will significantly reduce economic costs, produce high-quality and competitive products, and improve the production process.

Keywords: technological development, robotics, agricultural industry, solving applied problems, unmanned aerial vehicles, production efficiency

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