THE ROLE OF DRONES IN MODERN AGRICULTURE

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Abstract

The use of drones in agriculture has gained attention in recent years due to its potential to improve traditional farming practices significantly. Drones, also known as Unmanned Aerial Vehicles (UAVs), offer several advantages that can enhance crop productivity and quality while also reducing labour costs and environmental impact. In this article, we review the current state of research on using drones in agriculture and highlight some of the benefits they offer. We also discuss some of the challenges associated with integrating drone technology into agricultural operations, such as regulatory issues and technical limitations. Finally, we provide some insights into future research directions and potential applications of drone technology in agriculture, such as crop monitoring, yield forecasting, plant health assessment and pesticide management. Overall, this article aims to demonstrate the potential of drones in precision farming and sustainable agriculture and to highlight the opportunities that lie ahead, as their adoption is prone to increase highly in the near future.

Key words: drones, agriculture, farming, environmental impact