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A Survey of Drones Using IoT Technology

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Abstract: *Drones, also known as Unmanned Aerial Vehicles (UAVs), have rapidly evolved from military applications to versatile tools integrated with the Internet of Things (IoT). This integration has revolutionized multiple sectors by enabling real-time data collection, enhanced connectivity, and autonomous decision-making capabilities. This survey explores the current state of drones employing IoT technologies, analyzing their architecture, communication protocols, security challenges, and wide-ranging applications. The paper also presents future research directions, focusing on AI-enabled autonomous drones and secure, efficient network designs. The study emphasizes that the convergence of drones with IoT networks holds tremendous potential for transforming industries such as agriculture, logistics, disaster management, and smart cities*

Keywords: Sensors, IoT, Drones, UAV, UAS, Communication Protocols, Security, Smart Agriculture, Autonomous Systems

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