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Project Title :Autonomous Drone Swarming System: Collaborative Intelligence for Dynamic Environments

Abstract:

The Autonomous Drone Swarming System project aims to develop a sophisticated solution for coordinating and controlling a swarm of drones autonomously, enabling them to collaborate effectively in dynamic and unpredictable environments. Leveraging advancements in robotics, artificial intelligence, and communication technologies, this system promises to revolutionize various applications including surveillance, search and rescue, disaster management, and environmental monitoring. The core of the system lies in the development of intelligent algorithms and protocols that enable drones to communicate, collaborate, and adapt to changing conditions autonomously. Each drone in the swarm is equipped with sensors for environmental perception, onboard computation capabilities, and communication modules for inter-drone communication.

