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(57) Abstract :

Embodiments of the present disclosure relates to a system (100) and method (300) for secure and efficient data backup of UAV by capturing data from off-the-grid or difficult-to-reach locations using UAVs and storing the data in a central database. The system comprises a processor (202) coupled to a memory (204). The memory (204) stores processor-executable instructions. The processor (202) is configured to deploy the UAV to a target area. Further, the processor (202) is configured to collect data from a plurality of data collection tools. Next, the processor (202) is configured to transmit the collected data to a central database. In the end, the processor (202) is configured to store the data in the central database for secure backup and retrieval.

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