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Drones, also known as unmanned aerial vehicles (UAVs), are aircraft without onboard pilots that are controlled remotely or autonomously. They have found widespread applications in various fields, including aerial photography, surveillance, package delivery, agriculture, disaster response, and more.

Drones are equipped with cameras, sensors, and GPS technology, enabling them to perform tasks ranging from capturing breathtaking aerial views to collecting data in hard-to-reach locations.

Security and Surveillance:
Law enforcement and security agencies use drones for surveillance and monitoring in various situations.

Mapping and Surveying:
Drones are utilized for creating detailed maps and 3D models of areas for urban planning and land surveying.

Ecological Sensing:

Precise ecosystems status monitoring, speciation, forest management, plant deconvolution, pollutants identification, wildlife monitoring, cryosphere, sea ecosystems monitoring, anti-poaching.

Agricultural Advancements:

Drones equipped with specialized sensors can monitor crop health, detect pests and diseases, and optimize irrigation and fertilization. This precision agriculture approach can increase yield while minimizing resource use.

Open Pit Mining:

Drones equipped with high-resolution cameras, LiDAR (Light Detection and Ranging), and other sensors can be used to create accurate and up-to-date 3D maps and models of the mining site. This information helps in assessing the terrain, planning mining operations, and monitoring changes in the pit over time.

Flood Monitoring:
Digital terrain model derived flood simulations and real time flood control Search and rescue: Video based visible light and thermal sensor based search, coordinate estimation, orbiting observation in the most extreme conditions.

Infrastructure Control:
Roads and railroads management and control, critical infrastructure monitoring, pipeline and well monitoring, upstream, midstream and downstream monitoring.

Wildfire Managemnt:
Hot zone definition and fire perimeter definition, coordinate estimation, wildfire area mapping and charting, communications relay.

Search and rescue:
Video based visible light and thermal sensor based search, coordinate estimation, orbiting observation in the most extreme conditions.

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