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Autonomous Drones Technology for Sensing and Communications

Guest Editor:

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Deadline for manuscript submissions:

closed (31 August 2023)

Message from the Guest Editor

This Special Issue is focused on concepts, and algorithms for commercial drones to perform autonomous missions such as: mapping, inspection, remote-sensing, and ad hoc communication. In other words, this Special Issue investigates the ability of a swarm of drones to act as an efficient Dynamic Wireless Sensor Network (D-WSN).

The scope of this Special Issue includes the following topics:

- 1. Drone to Drone and Drone to Swarm ad hoc communication.
- 2. Visual navigation for drones, including visual formation flight.
- 3. Detecting "landable spots" in unknown regions and performing landing and take-off accordingly.
- 4. Swarm sensing of wildfires (including where to land and when to move).
- 5. Self-inspection of a drone's "well been" using acoustic analysis
- 6. Sense and avoid methods for drones.
- 7. Video-based real-time photogrammetry.
- 8. Edge AI for drones: using light platforms (such as TPU or OAK—1) to allow onboard, real-time inferencing.
- 9. Smart cooperation between drones.













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Message from the Editor-in-Chief

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