Special Issue

Advances in Deep Learning for Drones and Its Applications: 2nd Edition

Message from the Guest Editors

Papers are solicited on all areas directly related to these topics, including the following:

- Large-scale aerial datasets and standardized benchmarks for the training, testing, and evaluation of deep learning solutions;
- Deep neural networks (DNN) for field aerial robot perception (e.g., object detection or semantic classification for navigation);
- Recurrent networks for state estimation and dynamic identification of aerial vehicles;
- Deep reinforcement learning for aerial robots (discrete or continuous control) in dynamic environments;
- Learning-based aerial manipulation and planning in cluttered environments;
- Decision making or task planning using machine learning for field aerial robots;
- Data analytics and real-time decision making with aerial robots-in-the-loop;
- Aerial robots in agriculture using deep learning;
- Aerial robots in inspection using deep learning;
- Imitation learning for aerial robots (e.g., teach and repeat);
- Multi aerial-agent coordination using deep learning;
- Innovative and novel mechanical and electrical design for aerial vehicles.

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About the Journal

Message from the Editor-in-Chief

Drones is the only international open-access journal about the science, policy and technology of drones and its applications. Nowadays, the proliferation of drones is a reality for local policy makers, regulatory bodies, mapping authorities, startups and consolidated companies. There are many uses and benefits of drones: from the emergence of new sensors and the evolution of new platforms; to the development of specific software and the emergence of new applications. *Drones* publishes reviews, regular research papers, communications and short notes, without restriction on the length of papers. *Drones* seeks to provide a central forum for scholars engaged in drones' research and applications.
There is a need for high quality papers in this area and the *Drones* Editorial Board are widely recognized international leaders. *Drones* journal guarantees a serious peer review and a rapid publication across the whole discipline of drones.

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