

Call for Papers



International Journal of Intelligent Internet of Things Computing

Special Issue on: "New Challenges for UAV-based Communications, Learning and Applications"

Guest Editors:

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Unmanned air vehicles (UAVs) are becoming a key enabling technology. Providing multi-hop collaboration among UAVs in addition to employing artificial intelligence (AI) techniques can significantly improve the services that UAVs can provide. Recently, artificial intelligence, specifically machine learning (ML), has shown outstanding performance in complicated task that require human-like intelligence and intuition. ML is capable of detecting hidden structures in data and using them to make smart decisions. The three categories of ML – supervised learning, unsupervised learning and reinforcement learning (semi-supervised) – can be used for the restoration of necessary communications in an outage area and ensure the minimal delay for emergency support.

To aid the accomplishment of this vision, intelligent solutions are needed to reshape existing UAV networks. In this special issue, we aim to explore the latest ongoing research on UAVs in smart applications.

Subject Coverage

Suitable topics include, but are not limited, to the following:

- Communication protocols for UAVs
- Intelligent localisation, navigation and dynamic path planning of UAVs
- Intelligent resource management for UAVs
- Machine learning and AI algorithms for UAVs
- Extended mobile coverage and enablers for intelligent UAVs
- Intelligent UAV placement in low-energy applications
- Use cases enabled by intelligent UAVs in smart cities
- Security in intelligent UAV-based communications

Notes for Prospective Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. (N.B. Conference papers may only be submitted if the paper has been completely re-written and if appropriate written permissions have been obtained from any copyright holders of the original paper).

All papers are refereed through a peer review process.

All papers *must* be submitted online. To submit a paper, please read our [Submitting articles](#) page.

If you have any queries concerning this special issue, please email Prof. Fadi Al-Turjman at fadi.alturjman@antalya.edu.tr.

Important Dates

Manuscripts due by: *15 December, 2019*

Notification to authors: *15 February, 2020*

Final versions due by: *30 April, 2020*