Special Issue

IoT Assisted Unmanned Aerial Vehicle for the Cellular Networks

Message from the Guest Editors

Due to their wider service coverage over fixed sensor nodes, emerging unmanned aerial vehicles (UAVs) have been extensively utilized for sensing applications. UAV communications include a variety of distinct features compared to terrestrial cellular networks, such as extremely dynamic network topologies and sparsely coupled communication channels, also having practical limitations, including the battery life, no-fly zones, and sensor requirements. As a consequence, ultra-reliable and real-time sensing applications require novel communication and signal processing approaches. Topics of interest relating to the Internet of UAVs include, but are not limited to:

- Protocols and network architecture;
- Techniques for canceling and coordinating interference;
- Techniques for cooperating and relaying;
- Artificial intelligence-aided communications for the Internet of UAVs;
- Internet of UAVs helped by a wireless power transfer;
- Radio resource management;
- Quality-of-service-aware trajectory optimization;
- UAV communications;
- Cellular networks;
- Signal processing approaches.

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