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Wireless Communications with Unmanned Aerial Vehicle

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Message from the Guest Editors

As wireless controlled systems, UAVs also need many other technologies for their success. For example, their energy systems not only need to be efficient, to provide greater autonomy, but also smart so that they can collect energy in many different forms. Different wireless technologies are also needed to guarantee robustness and the diversity of frequency bands and systems, for example, using terrestrial and satellite security with a very high degree of service reliability to ensure that these vehicles can successfully accomplish their missions without being interfered, detected or captured.

With this in mind, there are many possible contributions that are welcome for this Special Issue, including, but not limited to, the following:

- path planning and robust navigation;
- massive MIMO systems;
- autonomy and smart decision planning;
- energy-efficient UAVs;
- reliability, see/sense-detect-and-avoid systems;
- smart sensors for UAVs;
- security, risk assessment, advanced guidance and control algorithms using AI;
- manned/unmanned aviation;
- reconfigurable intelligent surface-assisted UAV communications;
- UAV-to-UAV communications;
- higher frequency (mmWave/THz) UAV communications;



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