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Smart Antennas for Future Communications

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Message from the Guest Editors

In the near future, 5G networks will be widely deployed, more and bigger satellite constellations will be launched, and the foundations for 6G will be laid, with the purpose of universal connectivity. IoT promises to link 100 billion devices to enable effective cooperation between the various actors. It can easily be understood that the information obtained through sensors can be strongly complemented by data provided by the objects being tracked.

In this world, which is nearby, smart or adaptive antennas have a fundamental role. The smart antenna, as a transmitter, will have the fundamental characteristic of directing the wave to the receiving target, reducing the electromagnetic pollution generated to a minimum. As a receiver, however, it has to be focused on the wave heading towards it and put out the remaining spectral environment. Spatial, temporal and frequency diversion can, among others, compete to obtain adequate results. To achieve these goals, we will have to leverage smart antennas.

Keywords

- smart antennas
- adaptive antennas
- beamforming
- MIMO
- 5G
- 6G
- new space communications

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Message from the Editor-in-Chief

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