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Design and Application of Millimeter Wave Antennas

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2022)

Message from the Guest Editor

As demands grow for high data transmission rates, low latency, and high reliability, there has been a continuous pursuit of wider bandwidths in vehicular communications. This has attracted extensive research interests in vehicular antennas for millimeter-wave (mmWave) and sub-terahertz (sub-THz) bands. Although these bands offer great opportunities of providing data-rates on the order of multiple Gbit/s, a thorough understanding of challenges in the antenna design needs to be developed in order to ensure successful deployment in practice. In this Special Issue, we introduce innovative solutions to enable potential advances in antenna technology for emerging vehicular applications, including but not limited to mmWave and sub-THz spectrums. We encourage submissions on areas related to:

- Antennas for autonomous vehicles
- Antennas for air, land, and sea vehicles
- Wave propagation and channel environment
- Considerations on physical implementation
- Vehicle-to-everything (V2X) communications

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Message from the Editor-in-Chief

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