

Radar spectrum measurement from drone platform in situ

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Abstract

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Abstract:

This paper is about spectrum analyzer measurements in situ of different antennatype radiation patterns, including radar, using an Unmanned Aerial Vehicles (UAVs) platform. This measurement method offers a 3D complex solution for mapping the emissions of emitters such as radar, Wi-Fi communication antennas, and electrosmog of automobiles, smart cities, which subject gets increasing attention today and in the near future. Based on these facts, the goal of this research is to analyze design issues and create a drone-based platform that can autonomously "in situ" measure these electromagnetic spectrum components and then draws conclusions from the data obtained.

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