

Tracking and Pointing Performance Verification Using an Airborne Positioner



Andrian Buchi co-founded QuadSAT in 2017. QuadSAT provides antenna testing solutions using unmanned aerial vehicles, bridging classical antenna measurements and novel testing capabilities, such as satellite emulation. Andrian is QuadSAT's Chief Technology Officer (CTO)

Abstract:

Unmanned Aerial Systems (UASs) have revolutionized outdoor antenna measurements. Their flexibility, added to the possibility of bringing the measurement range to the measurement object, opens many possibilities for modern outdoor antenna diagnostics. Paired with a robotic positioner as payload, they enable many new testing possibilities.

QuadSAT uses UASs to support the satellite and space communities with in situ measurements of large antennas, with additional diagnostics such as the evaluation of the tracking and pointing performance of the antennas.

This workshop consists of two parts:

Part 1: An introduction of QuadSAT's technology and how it is used to assess the performance of antennas, including how it is used to emulate satellites.

Part 2: A live demo where the product and its capabilities are showcased, and a Q&A session.

Workshop outline:

Our keynote speaker is Andrian Buchi. The first part of the workshop consists of an introductory technical presentation, while the second part consists of a live demo. Andrian will accompany the attendees to a designated outdoor area for the live demo, where a team from QuadSAT will carry out some tests.