



Name & Organisation

Radim Badsj, Groundspace

Presentation title

Crowded Skies: Safeguarding the RF Spectrum in the Age of Satellite Constellations

Abstract

This presentation introduces innovative methods and technologies for large-scale monitoring of NGSO satellites, with a focus on the autonomous detection, cataloging, and classification of RF activity. Building on recent advances in electronically steerable antennas, signal processing, machine learning and spatial-temporal analytics, we explore strategies for tracking and characterising the behaviour of individual satellites and entire constellations.

Short bio

Radim has a background in satellite communications, ground segment design and software development. He holds a Master's degree in Astronautics and Space Engineering from Cranfield University and has over fifteen years of expertise in creating transformative solutions to support cutting-edge space missions. In 2019, he founded Groundspace, where he serves as CEO, guiding the development of advanced space domain awareness solutions tailored to large satellite constellations.