



7th INTERNATIONAL SPACE RADIO MONITORING MEETING



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BUCHAREST
ROMANIA



Name & Organisation

Cristian CHIȚU — Director of Space, GMV Innovating Solutions S.R.L.

Presentation title

From Space Cybersecurity to Resilient PNT: GMV Romania's Experience

Abstract

CyberCUBE is an ESA mission led by GMV in Romania, with the participation of GMV in Spain and Alen Space, turning a 3U CubeSat into an in-orbit laboratory for space cybersecurity. By offering a real, flexible, and reconfigurable operational environment, CyberCUBE enables ESA, industry, and research communities to test and mature cybersecurity technologies that can strengthen the resilience of future European space missions. The presentation will focus on the platform's experimental capabilities, including onboard system monitoring, detection of unauthorized access, jamming and spoofing scenarios, and validation of post-quantum cryptography algorithms.

Short bio

Cristian Chițu is serving as Director of Space at GMV Romania since 2017, having joined the company in 2012 as space system engineer. He has extensive experience in systems engineering, project management, and the development of space systems and, recently, missions for the European Space Agency. He currently oversees GMV's operations in Romania and the company's participation in ESA programmes, with a focus on image-based navigation and GNC systems, avionics and onboard software, Space Surveillance and Tracking, Satellite Traffic Management, and satellite ground systems. In his presentation, he will explore space cybersecurity and resilient PNT technologies, using some practical examples.