



Radiofrequency Interference (RFI) Detection-Machine Learning (ML) System (“Truffle Pig”)

Assuring our Nation Remains a Global Leader in the Space Domain

Independent Technical Solutions

Stephenson Stellar Corporation (Stellar) is a nonprofit, vendor-agnostic organization that can mitigate complex cybersecurity challenges to the DoD effectively with COTS hardware and tailored software. Stellar has developed a low-cost, low-SWaP Machine Learning (ML)-based RFI detection and classification system (“**Truffle Pig**”), enabling near-instantaneous ID of hostile interference.

Machine Learning Expertise

Stellar’s unattended artificial intelligence/ ML technologies allow operators to easily re-train algorithms and monitor parameters organically, without the need for field technicians or depot reach-back.

Low-cost RF Monitoring

Truffle Pig software services provide automated, real-time detection for critical assets against RF attacks (jammers, spoofers, UAS), employing state-of-the-art compressed sensing combined with convolutional neural networks. Analysis takes seconds versus hours/days for traditional approaches that require time-consuming and error-prone SME analysis.

The Future of Space Security

We can provide Tactics, Techniques, and Procedures to improve space resiliency and provide next-generation cybersecurity solutions for space systems.

Truffle Pig: Government-trusted and ready to be tailored for your commercial needs, Contact Stellar!

