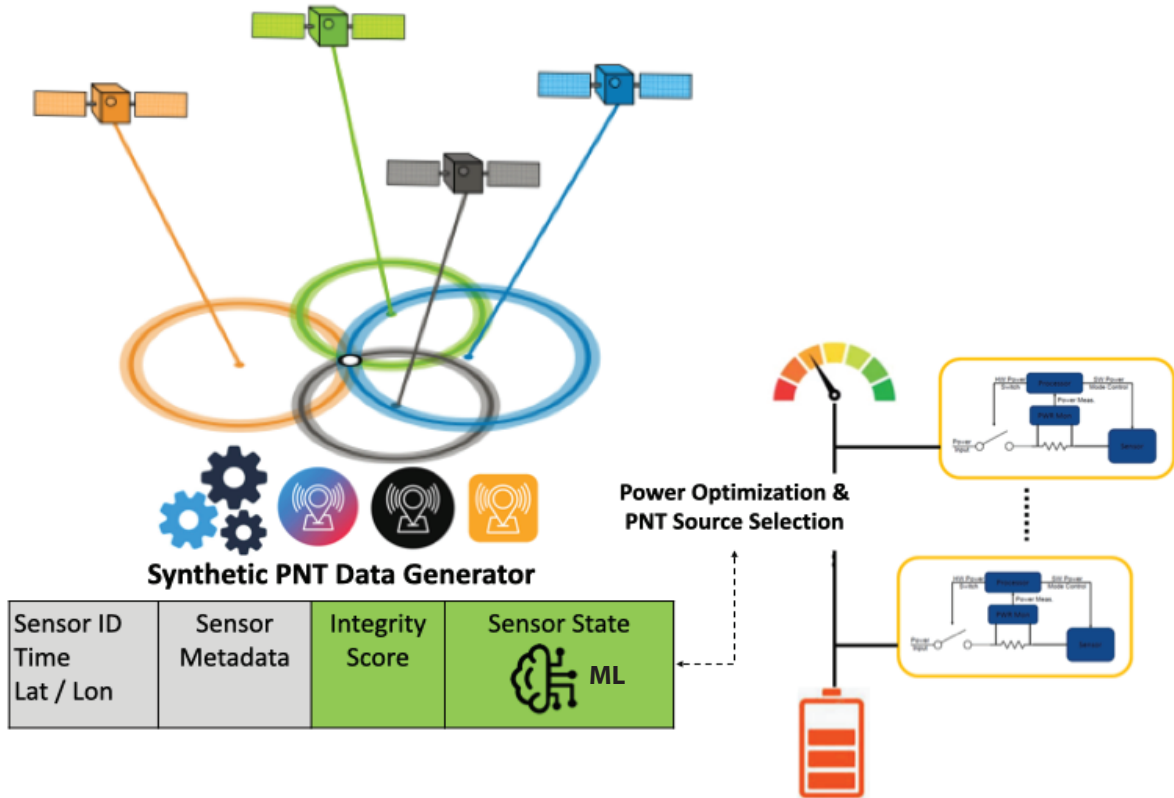# PNT Optimal Source Selection Using Machine Learning (POSSUM)

Sponsored by US Army C5ISR Center

Synthetic PNT Data Generator

Sensor ID Time Lat / Lon	Sensor Metadata	Integrity Score	Sensor State ML

Power Optimization & PNT Source Selection

RESULTS

- Developed Synthetic PNT Data Generator for different sensors and metadata

- Developed PNT Integrity and Power Optimization Scoring algorithms

- Developed POSSUM demonstration videos available upon request and approval by C5ISR Center

- Built Discrete Classification Machine Learning (ML) model for PNT operating states

- Trained and tested ML model for detecting Jamming, Spoofing, Impairment, Degradation, and Clean sensor states

- Integrated with pntOS and SIPNT

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