AXOLTL
Our Expertise, Your Competitive Edge

TeleMAPP™

Harnessing the Power of AI

The Telemetry Maneuver Analytics & Positioning Platform (TeleMAPP) connects distributed sensors, AI processors, and human operators through an adaptive framework that incorporates human-in-the-loop validation for collaboration between operators and AI systems.

AXOLTL LLC leverages a modular, containerized approach to provide a low-code/no-code option for operators to connect data, models, and visuals. TeleMAPP is easily integrated into existing architecture and provides API access, allowing for seamless integration with other programs and systems.

FEATURES

Multi-Sensor, Real-Time Data Processing

- Connects distributed sensors, AI processors, and human operators through a synchronized network
- Analyzes video feeds and sensor inputs to detect patterns, anomalies, and critical events

Advanced Object Detection & Tracking:

- Combines multiple modeling strategies (e.g., YOLO, OWL, SAM)
- Adapts to novel situations with limited or unavailable training data
- Enables real-time discovery and curation of new objects of interest through user selection

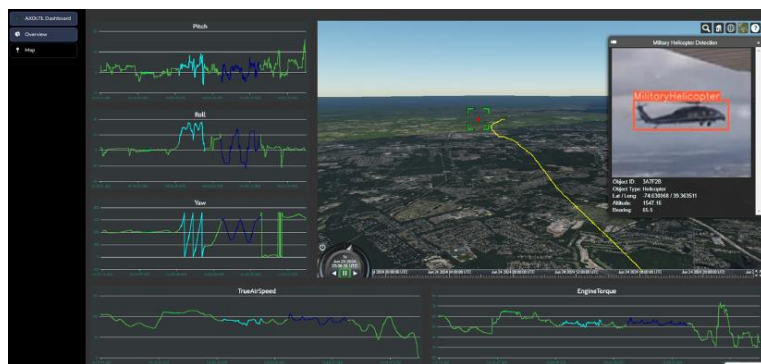*Behavioral Pattern Characterization:*

- Utilizes state-of-the-art spatiotemporal pattern recognition algorithms
- Supports user-defined selection of multivariate data for identification and validation

Anomalous Event Detection:

- Implements proven algorithms for detecting anomalies in multivariate time series data
- Automated notification systems alert users or systems of detected anomalies, ensuring timely responses to potential problems.

USE CASES

Domain Agnostic   Multi-User Platform

Defense & Military Operations:

- Autonomous vehicle patrols
- Counter-UAS swarm detection
- Flight Maneuver Recognition (FMR)

Autonomous Systems:

- Object detection, tracking, and geolocation
- Multi-sensor data fusion for enhanced detections, obstacle avoidance, and entity resolution

Industrial Automation:

- Real-time pattern recognition in manufacturing processes
- Anomaly detection in complex industrial systems

Transportation:

- Adaptive traffic control and vehicle tracking
- Incident response
- Predictive maintenance