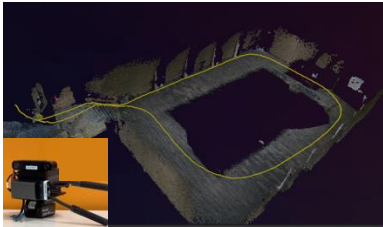# Uncertainty-Aware Spatial Perception

📷 Visual Perception

- Learning-based Visual Odometry with Metrics-aware Covariance [1]
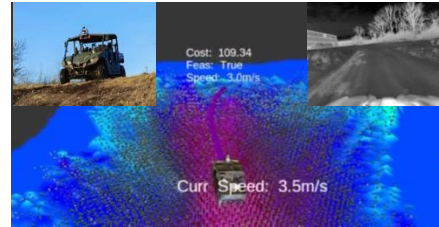
- Accelerating Learning-based Visual Perception [4, 5]

⊕ Inertial Perception

- Learning IMU Sensor Model and Uncertainty Propagation [2]

- EKF Fusion with Enhanced Learning IMU feature [3]

Uncertainty Learning

Efficient Robotics Perception [1, 4, 5]

Robust State Estimation [1 - 3]

Sensor Fusion Calibration [6]

Real-time Deployment on Orin AGX

Night-time Autonomy with Thermal Camera