



MATRIXYZ

MATRIXYZ.NET

Capability Statement


Company Overview

Matrixyz is a technology R&D company with core competencies in AI integrated analytic software, modeling and simulation of aerospace science and subsystems. Our services are advantageous to customers, including government agencies, aerospace industry, and defense contractors.

Areas of Technology: Generative and analytical AI, UAVs, modeling and simulation, robotics and automation, software-defined radios

Matrixyz LLC

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UEI: G14VW3543SB9

NACIS code: 541715

Certification: SDVOSB



Capabilities

Robotics in Logistics

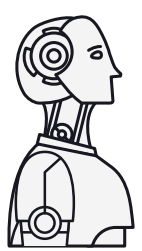
We specialize bridging the gap between AI and robotics. Currently, developing prototypes to automate commercial kitchens, fishing industry, and logistic transportation.

Satellite Imagery Sentiment Analysis

Our AI simplifies the process of interpreting data from satellite imagery. It is capable of identifying sentiments within the imagery, automating the tasks traditionally performed by geospatial analysts.

Synthetic Data Generation

Using minimal terrain information, we generate a digital replica of real-world maps in 3D. This innovation is advantageous for developing training modules for off-road robotic navigation and self-driving vehicles.



Products **RODINIA™** Geospatial Analysis

Leveraging Natural Language Processing, this AI-driven system comprehends the semantic content of geospatial imagery, whether sourced from satellites or drones.

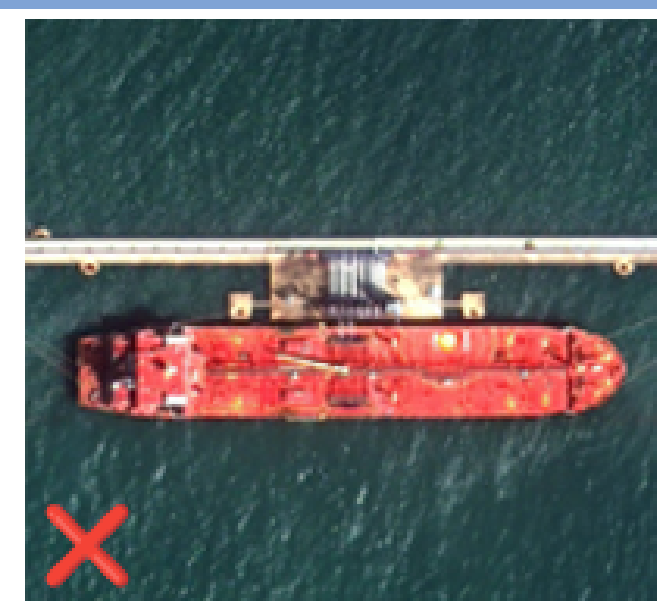


Competitive Advantage: Compared to traditional object recognition tools, this system does not just look for an object described; however, it is smart enough to understand how object and surroundings interacts.

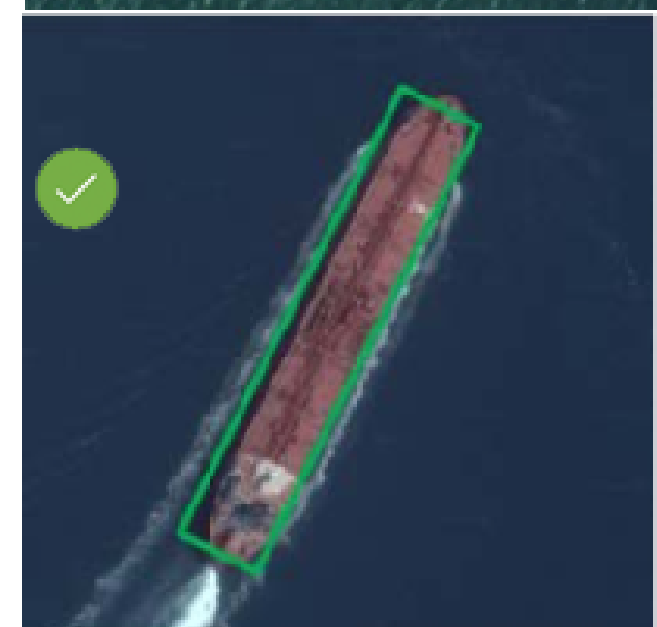


Use case scenario: Search for a red tanker in Erie Lake

By analyzing how tankers work and how they interact with water, this intelligent system understands which direction the boat is headed, whether the boat is moving or on shore.



- Red Tanker
- Location
- Size
- North Heading
- In Motion



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