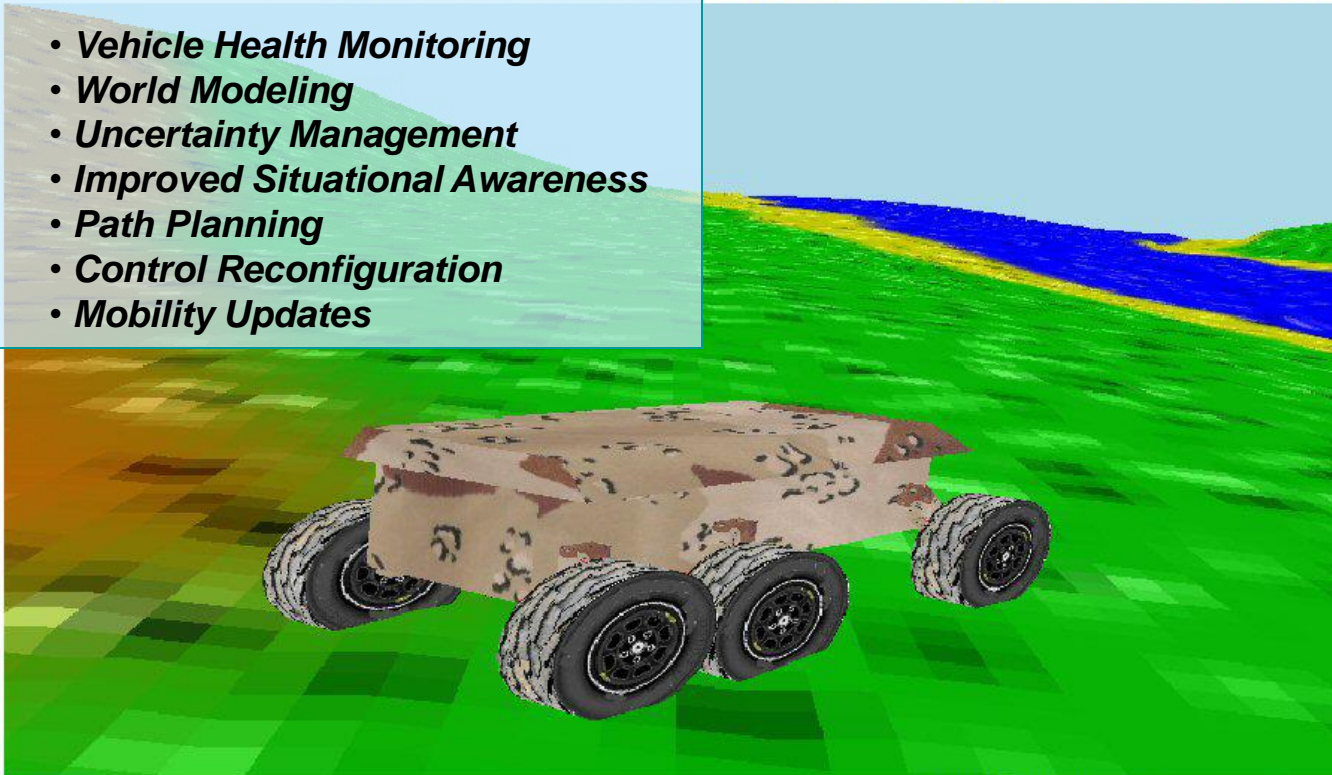


UGV Fault Tolerant Control System

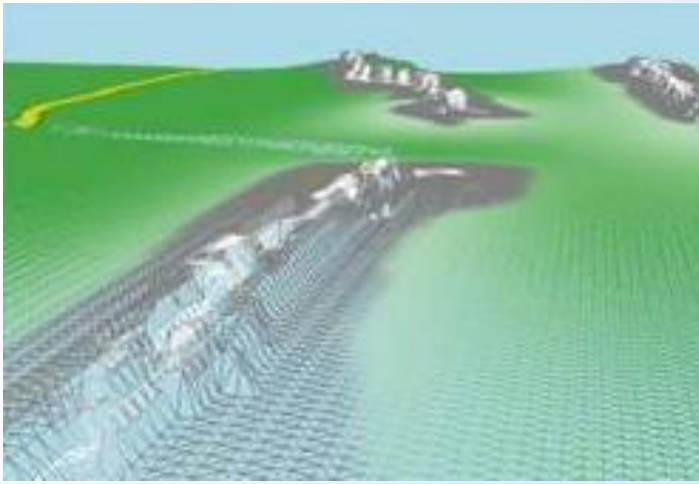
A Hierarchical Fault Tolerant Control System for Unmanned Ground Vehicles (UGVs) Experiencing Mobility Failures

- *Vehicle Health Monitoring*
- *World Modeling*
- *Uncertainty Management*
- *Improved Situational Awareness*
- *Path Planning*
- *Control Reconfiguration*
- *Mobility Updates*



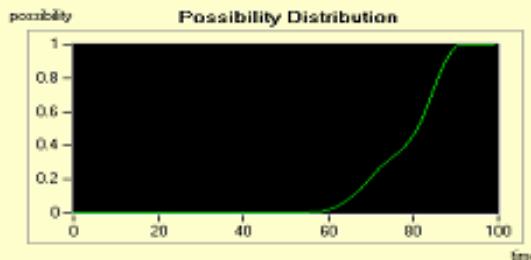
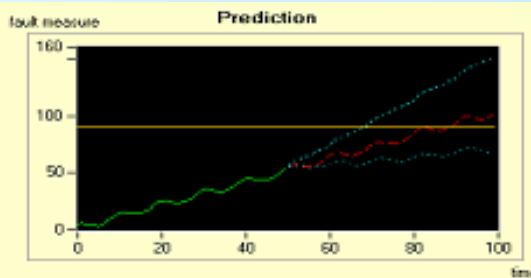
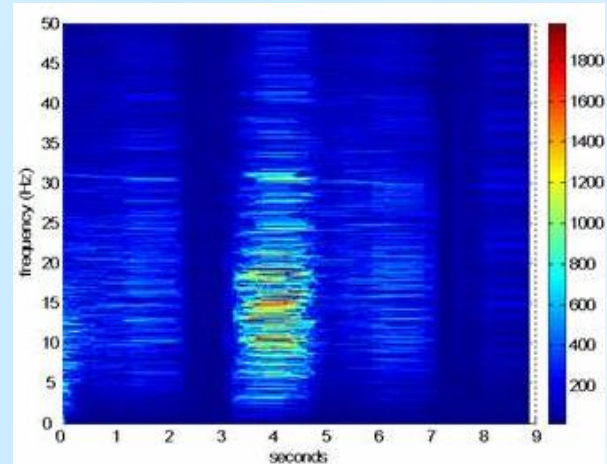
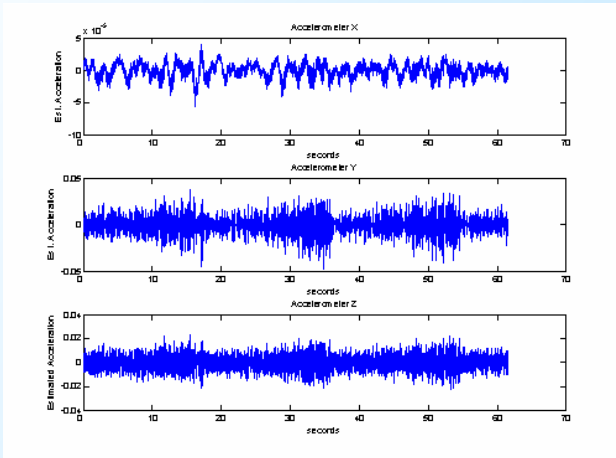
- *Model Unmanned Ground Vehicle (UGV) Dynamics*
- *Assess Vehicle Mobility*
- *Detect, Identify, and Predict Mobility Failures*
- *Reconfigure Control System Automatically*
- *Adjust Path Planning*
- *Improve Situational Awareness*

UGV Fault Tolerant Control System

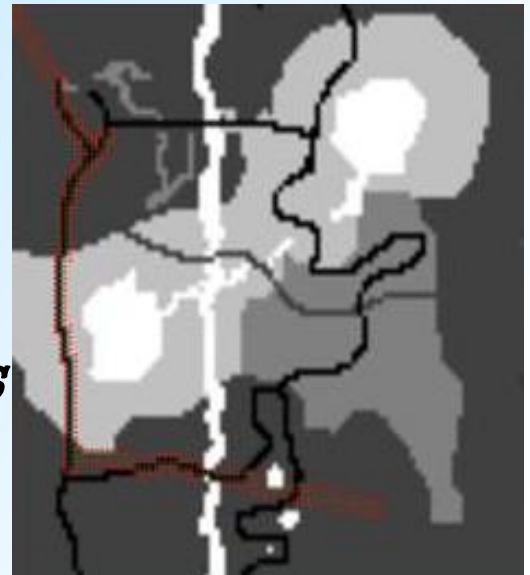


*Model
Terrain &
Vehicle
Dynamics*

Simulate and Analyze



*Assess and
Predict Vehicle Health*



*Adjust Strategic Plans
and Reconfigure
Controller Parameters*



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