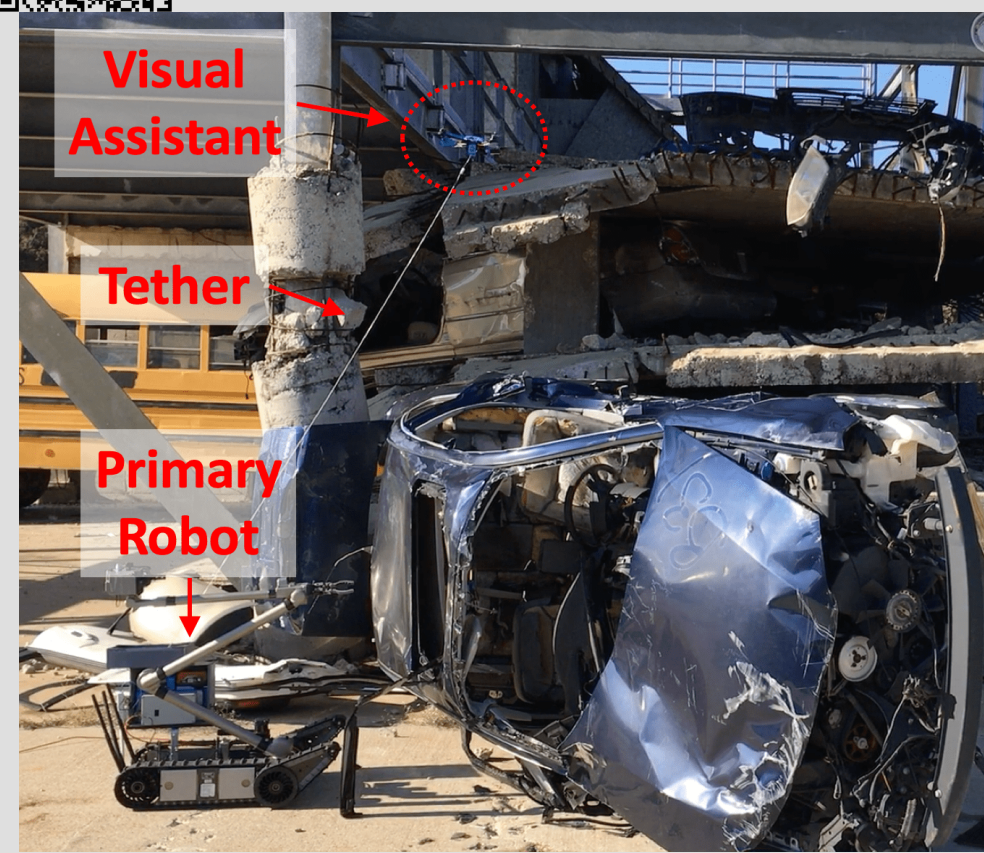


Intelligent Mobile Robots that Venture Anywhere

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Field Robotics



Fukushima Nuclear Disaster [1–8]



Hurricanes and Greece Refugee Crisis [9–11]



Mexico City Earthquake [12]

Motion Planning

Theory

- Risk-Awareness for Unstructured or Confined Spaces [2,4]
- Viewpoint Quality Theory based on Affordances [1]
- Ground Vehicles Energetic Models [13,14]

Algorithm

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- Tethered Aerial Motion Suite for Localization, Planning, Execution, and Visual Servoing [5–8]
- Cooperative Planning and Stabilization for UAV-USV Team [9,10]
- Locomotive Reduction [12]

Benchmark

- The BARN Dataset [15]
- The DynaBARN Dataset [16]
- The BARN Challenge at ICRA [17]
- Snake Robot Testbeds [18]

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- Hallucinated Learning and Sober Deployment [33]
- Learning from Learned Hallucination [34]

Join us at The BARN Challenge at ICRA 2023!



Maneuver through where no robot has maneuvered through before...



Verti-Wheelers

Drive where no wheeled robot has driven before...



SCAND

Social Robot & Human Navigation Datasets

Go where everyone has gone before...

MuSoHu

