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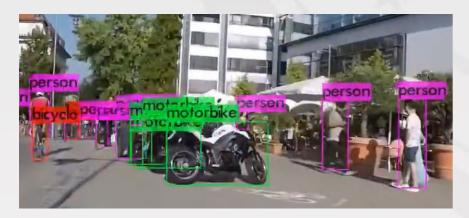
https://sites.google.com/view/utrail-uofu/home

Artificial Intelligence (AI) and Machine Learning (ML)

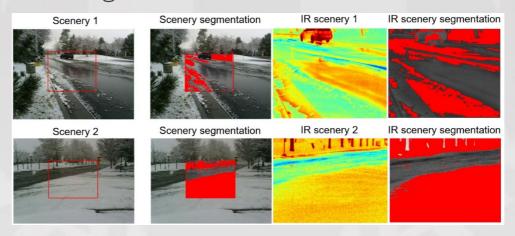
Al is a collection of hard problems which can be solved by humans and other living things, but for which we don't have good algorithms for solving.



Pavement Condition Assessment



Ped & Bike detection



Road Slippery Condition Assessment





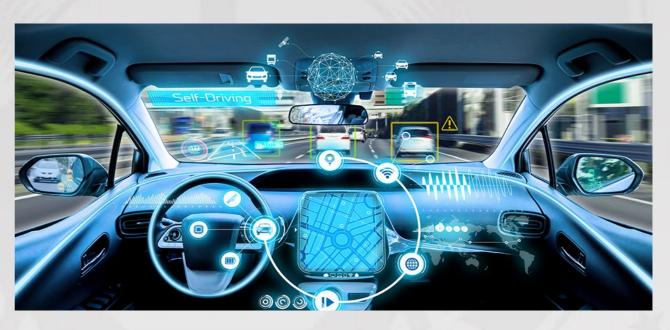


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Connected Autonomous Vehicles





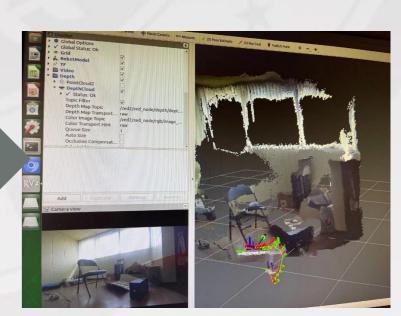
1Tenth CAV in our U-TRAIL Lab



Assembling the car



Completed car

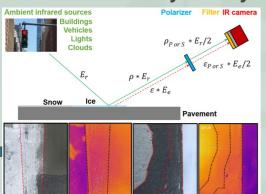


3D environment construction using sensors on the car

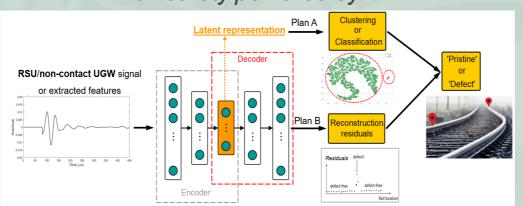


Automated infrastructure condition assessment

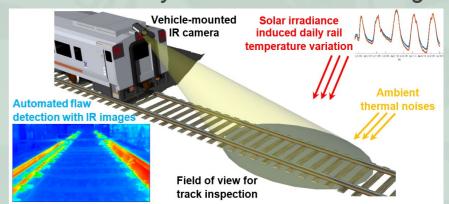
Winter roadway safety



Rail safety powered by Al



Transit safety with advanced sensing



Infrastructure Sensing & Experimental Mechanics (iSEM) Lab

Effective infrastructure condition assessment and management Pl: Zhu, Email: xuan.peter.zhu@utah.edu











Highway &

Bridges

Railroads

Aviation

Energy

Novel sensing technologies modeling & development

Wave propagation modeling Wave-based power & data communication Stretchable sensor for 3D imaging

