



Berkeley DeepDrive

Guiding the Next Generation of Research

We are at the forefront of research on deep automotive perception through the integration of two very important technologies: deep learning and vehicles.

OUR MISSION

We seek to merge deep learning with automotive perception and bring computer vision technology to the forefront.



We're driving the future of automotive perception.

The Berkeley DeepDrive Industrial Consortium investigates state-of-the-art technologies in computer vision, robotics, and machine learning for automotive applications. Our multi-disciplinary center is housed at the University of California, Berkeley and is directed by Professor Trevor Darrell, Professor Kurt Keutzer, Dr. Ching-Yao Chan and Dr. Wei Zhan. The BDD consortium partners with private industry sponsors and brings faculty and researchers together from multiple departments and centers to develop new and emerging technologies with real-world applications in the automotive industry. Research is proposed by UC Berkeley faculty and approved by a BDD advisory board composed of faculty and sponsor representatives. Although dramatic progress has been made in the fields of computer vision and robotics, many of these technologies and theories have yet to carry over to the automotive field. Thus, the need and driving force behind the Berkeley DeepDrive Center.



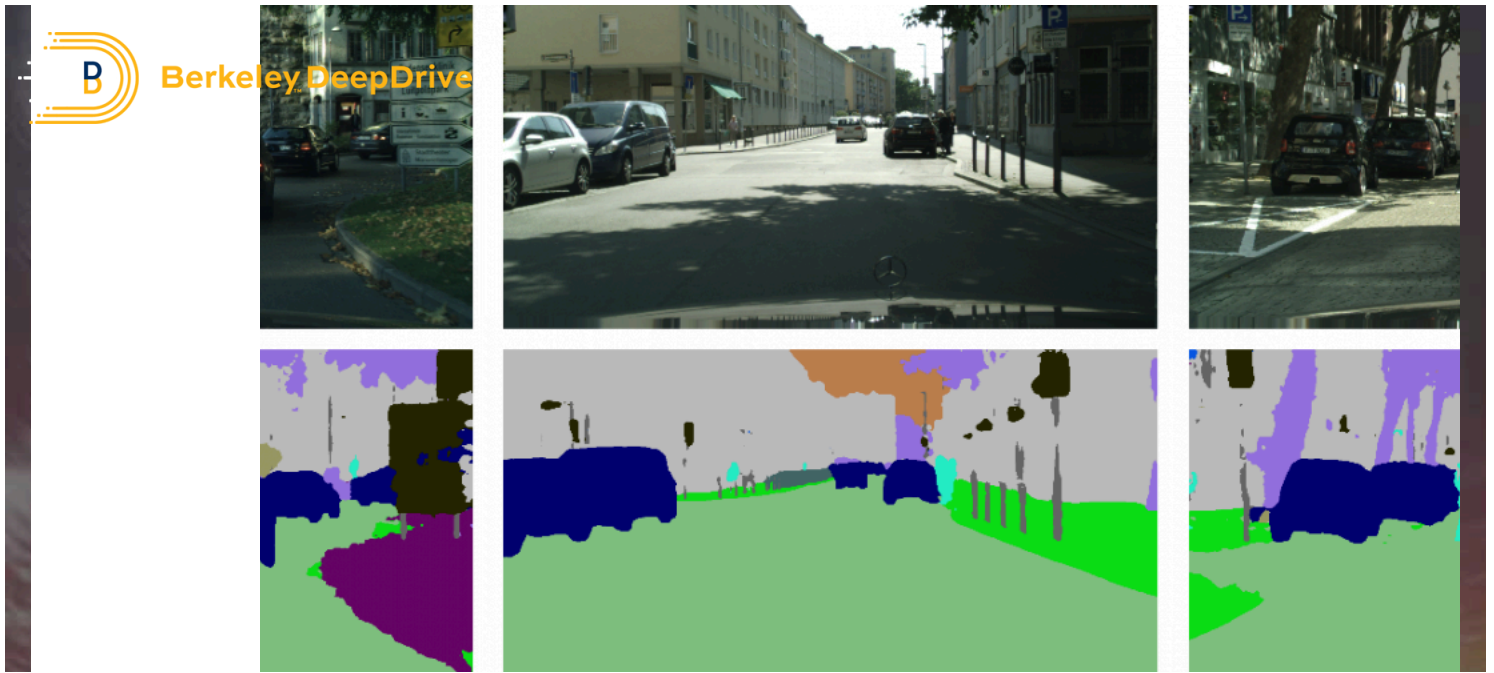
FEATURED PROJECTS

We are excited about our work. See why.



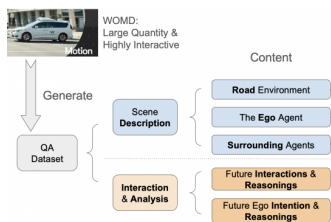
Berkeley DeepDrive



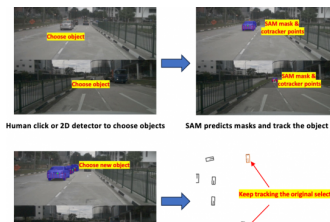


ALL PROJECTS

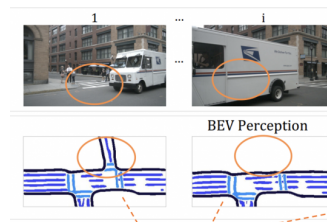
See all of the ways we're driving the future.



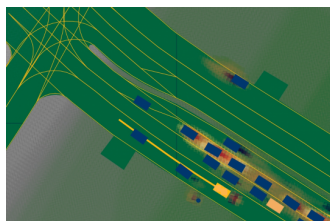
Stimulate Reasoning Abilities of LLM in Interactive Prediction and Planning



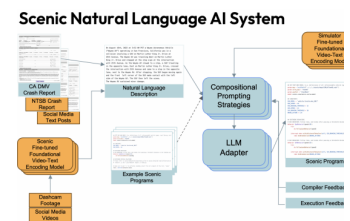
Tracking Anyone and Any car for 3D Auto-Labeling from Video Inputs



A Unified Generative Framework for 3D Driving Scenarios



[Searchable Database of Potential Crash Scenario Models for CARLA and the Corresponding Sensor Data Feeds](#)



Model-Based Testing meets Large Language Models: Automating Intelligent Scenario Generation and Safety Assessment with ScenicNL



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We are proud to partner with these industry leaders



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