

SPRING QUARTER 2026

CEE 298, Sem 2: Autonomous Driving for New Mobility

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Lecture: Monday and Wednesday, 12:00 – 1:50pm
Location: 5440 Boelter Hall
Class ID: 547940202

Course Description:

Comprehensive exploration of autonomous driving systems (ADS) world and smart infrastructure. Emphasis on application of artificial intelligence (AI) and robotics across the ADS pipeline. Covering key areas such as perception, prediction, decision-making, control, high-definition maps, and cooperative driving. Introduction to essential AI algorithms including machine learning, deep learning, computer vision, and decision-making techniques. Introduction to application of these algorithms, in combination with robotics and control fundamentals, to domain problems of autonomous driving and smart infrastructure. Through mix of theoretical instruction and practical projects utilizing simulations and real-world autonomous driving data, students delve into use of sensors, perception through camera and LiDAR, robotic operating systems, and cooperative driving automation.