CS286, Special Topics: Computer Vision

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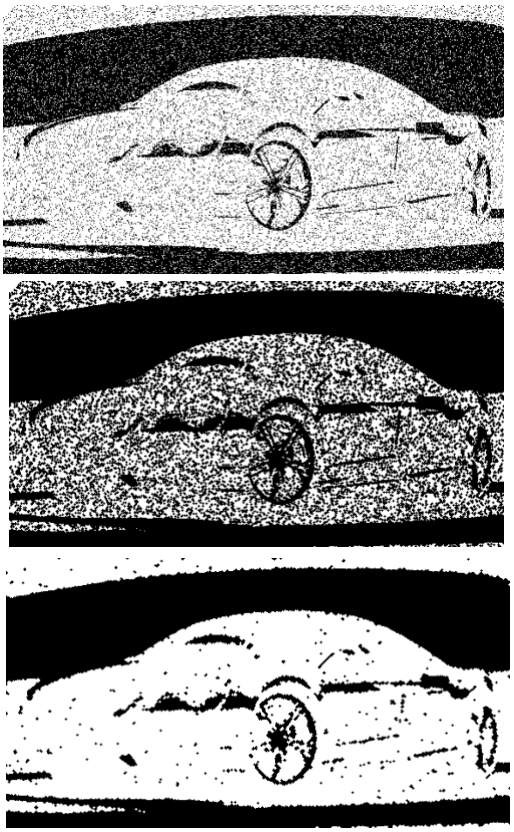
Course Description

This course provides students with both theoretical knowledge and practical experience with fundamental and advanced Computer Vision algorithms. Topics range from basic image processing techniques such as image convolution and region and edge detection to more complex vision algorithms for contour detection, depth perception, dynamic vision, and object recognition. Moreover, core topics like color processing, texture analysis and visual geometry are covered. In programming assignments, students gain practical insight into the development of vision applications by implementing Computer Vision algorithms in the C programming language. Their final project is the development of their own computer vision program that solves a given problem.



Prerequisite

MATH 42, MATH 129A, and CS 49C or equivalent (with a grade of "C-" or better in each)