Animal Collision Avoidance System

Introducing the problem

15 000 large animal roadkills occur every year in Hungary, which is approximately 8 times more than pedestrian hits in a year. These accidents cause injuries and on average $2000 worth of damage to property. Our system aims to reduce the number of collisions by detecting near road animals in time to allow for deceleration or emergency braking.

Detecting fast moving animals in a forest is a hard task not just for a human driver but also for traditional cameras or sensors like radars, especially at night or in bad weather conditions. Our plan is to deploy infrared cameras because it can sense the emitted heat of the animals, which has a great contrast to its environment.

Camera alignment