ABSTRACT OF THE DISCLOSURE

OBJECT DETECTION BASED ON LIDAR INTENSITY

Aspects of the present disclosure involve systems, methods, and devices for determining reflectance properties of objects based on Lidar intensity values. A system includes one or more processors of a machine and a machine-storage medium storing instructions that, when executed by the one or more processors, cause the machine to perform operations comprising accessing an incoming data point output by a Lidar unit during operation of a vehicle. The operations may further include inferring, using a reflectance inference model, a reflectance value of an object based on the incoming data point. The reflectance inference model comprises a mapping of previously collected data points to a coordinate system using associated range values and raw intensity values. The operations may further include determining one or more characteristics of the object based on the inferred reflectance value.

(FIG. 1)