Title of the Invention: System and Method for Multipath Auto-labeling in High-Resolution Radar Point Cloud

Abstract

Multipath is a challenging issue in radars that can impair the performance of environment perception and even lead to false decisions in the advanced driver-assistance system (ADAS), vehicular automation, industrial off/on road, and other radar usage applications. Deep learning (DL) is an attractive approach to this problem. However, DL needs large datasets with labeled data points. Data labeling in this case is paramount considering time and cost. This patent presents the invention of an automatic labeling system for multipath using a synchronized sensor setup consisting of both the camera and radar. But not limited to only radar and cameras.