Title of the Invention: System and Method for Learning a Generalized Model for Anomaly Detection in High-Resolution Radar

Abstract

Multipath in the point clouds can impair the environment perception using radars. Deep learning (DL) approaches have been proposed recently for detecting multipath. One key issue in the DL approach is the model generalizability i.e. the ability to adapt properly to new, previously unseen data. Model generalizability is largely ignored in the existing works. This patent presents the invention of a system and method for building a generalized model of multipath detection based on a diversified dataset consisting of multipath datasets of different and varied scenarios.