

Abstract

LEARNING MODEL, SIGNAL PROCESSING DEVICE, FLYING OBJECT, AND TRAINING DATA GENERATION METHOD

The present invention is to enable the detection of a target object such as a ground object using RAW data. A learning model is trained using training data with, as input, a received signal of a first synthetic aperture radar based on reflected electromagnetic waves obtained by reflecting electromagnetic waves radiated to a learning area, and first target object information on a target object in the learning area according to a feature of the received signal of the first synthetic aperture radar as output to cause a computer to perform a function to output second target object information on a target object in a detection area according to a feature of a received signal of a second synthetic aperture radar in response to input of the received signal of the second synthetic aperture radar based on reflected electromagnetic waves obtained by reflecting electromagnetic waves radiated to the detection area.

Figure 1