

ABSTRACT

An overhead contact line fitting abnormality detection device and an overhead contact line fitting abnormality detection method are provided, allowing the detection accuracy of abnormalities in overhead contact line fittings to be increased at a low cost, even when the components to be detected are small. A learning processing unit 17 that performs learning using image data generated by capturing an image of an overhead contact line fitting, and a data processing unit 15 that performs abnormality determination using the image data are provided. The learning processing unit 17 is provided with an equipment learning unit 19 that learns to detect equipment, and a component learning unit 21 that learns to detect a component of the equipment. The data processing unit 15 detects the equipment by using an equipment detection model learned by the equipment learning unit 19, detects the component from the detected equipment by using a component detection model learned by the component learning unit 21, and determines whether there is an abnormality in the equipment and/or the component by using an abnormality detection model that has been learned in advance.

FIG. 2