

ABSTRACT

To provide a line abnormality detection system for detecting a line with higher accuracy and in a shorter time. A line abnormality detection system 10 is configured from line sensor cameras 11a, 11b, a storage unit, an overhead contact line fitting detection unit, a line detection unit, and a line abnormality detection unit. The line sensor cameras 11a, 11b capture an image of a line (messenger wire 4, contact wire 5, hanger 6) from a vehicle roof 2 of a running vehicle 1. The overhead contact line fitting detection unit detects, from image data, fittings (hangers 6) that accompany the line. The line detection unit calculates a likelihood indicating an extent to which it is possible for the fittings to be joined to one another in a straight line and detects a line (messenger wire 4, contact wire 5) from the image data on the basis of the likelihood. The line abnormality detection unit detects an abnormality in the line (messenger wire 4, contact wire 5) from line detection information and a line image.

FIG. 1