

Abstract

The present disclosure provides a road surface shape estimation device and the like, which are capable of easily and accurately estimating a three-dimensional shape of a road surface. The road surface shape estimation device of the present disclosure includes an identification unit that compares a first birds-eye view obtained by converting a first image of a road surface, captured from a first position, into a birds-eye view with a second birds-eye view obtained by converting a second image of the road surface, captured from a second position different from the first position, into a birds-eye view and identifies, for each of a plurality of portions of the road surface, a first portion in the first birds-eye view corresponding to the portion and a second portion in the second birds-eye view corresponding to the portion and an estimation unit that calculates an amount of movement between the first portion and the second portion over the images and estimates an uneven shape of the road surface on the basis of the amount of movement.