

Abstract

A device or the like is provided that can aim at an improvement in precision of estimation about a possibility of interference between an attachment of a work machine and an external structure. A crane M (work machine) and a building Q (external structure) are modeled in a three-dimensional virtual space, and space occupation modes in the three-dimensional space are defined. Further, in the three-dimensional virtual space, a designated plane group configured with a plurality of designated planes P_1 and P_2 spaced apart from each other is defined along an upper revolving body and/or an attachment M1 which are revolvable with respect to a lower traveling body of a base body M0 of the crane M. One designated plane group is defined in accordance with an extension mode of the upper revolving body at one time point. Further, a second-order working plan assistance image, in which respective occupation modes of the crane M and the building Q in the designated planes P_1 and P_2 constituting the designated plane group are displayed, is output to a terminal output interface 22.