

ABSTRACT

An inspection pose detection system for a rail-transportation rolling stock includes a reference datum (310), a pose detection device (320), and a processing device (330). The reference datum (310) is disposed at a side of a railway where a vehicle to be detected is parked, along an extending direction of the railway. The pose detection device (320) is disposed on an inspection robot (400) for the rail-transportation rolling stock and configured to detect distance information of the inspection robot (400) for the rail-transportation rolling stock with respect to the reference datum (310). The processing device (330) is communicatively connected to the pose detection device and configured to calculate a pose deviation of the inspection robot (400) for the rail-transportation rolling stock with respect to a datum coordinate on basis of the distance information of the inspection robot (400) for the rail-transportation rolling stock with respect to the reference datum (310). The inspection pose detection system for the rail-transportation rolling stock can achieve the measurement of the pose deviation with a high accuracy. An inspection pose detection method for the rail-transportation rolling stock is further provided.

Fig.10