

Abstract

The invention relates to a method for automated monitoring of the travel operation (F) of a passenger transport system (1) by means of a monitoring system (5). The monitoring system has a hazard analysis module (7) and a motion-sensing module (9). The motion-sensing module is directed toward the passenger transport system and is configured to capture electronically processable real motion sequence recordings (15) of situations. The method comprises: receiving real motion sequence recordings in the hazard analysis module (7); receiving data (X, Y, Z) of a digital double (29) of the passenger transport system in the hazard analysis module, wherein the data comprise at least information relating to physical properties of the passenger transport system, which allow a conclusion to be drawn about a visual appearance (30) of the passenger transport system in a predetermined motion state; determining information relating to dynamic objects (31) on the passenger transport system by the hazard analysis module, wherein the information is determined based on the received data of the digital double and the real motion sequence recordings; determining information relating to a current hazardous situation (101A, 101B, 101C) on the passenger transport system by the hazard analysis module based on an analysis of motions of the determined dynamic objects; and outputting a warning (26) by the hazard analysis module based on the determined information relating to the current hazardous situation.

(Fig. 1)