

ABSTRACT

TRAFFIC MONITORING SYSTEM FOR MONITORING A TRAFFIC AREA

The invention relates to a traffic monitoring system for monitoring a traffic area with parking surfaces for respective individual vehicles and/or with parking surfaces for a freely arrangeable row of vehicles. The system comprises one or more radar sensors which are arranged overhead and are oriented towards the traffic area such that a chronological sequence of digital radar images of the traffic area can be captured. The system further comprises an analyzing unit which is designed to detect vehicles parked on the traffic area and to ascertain the locations and dimensions of said vehicles from the captured sequence of radar images and which is designed to determine the occupancy state of the parking surfaces from a data comparison of the ascertained locations and dimensions of parked vehicles with configured geodata of the parking surfaces. The occupancy state of a parking surface is either occupied or free for an individual vehicle, and the occupancy state of a parking surface for a freely arrangeable row of vehicles is either occupied or provided by one or more free parking spaces. The traffic monitoring system further comprises an image output unit which is designed to output a map view of the traffic area with marked parking surfaces and the current occupancy state of the parking surfaces. A traffic monitoring system is thus provided which allows a more effective monitoring of the traffic area.