

PORTABLE SENSOR SYSTEM

ABSTRACT

The invention relates to a portable sensor system (100) for detecting objects in the environment of the portable sensor system (100) and for being temporarily attached to a mobile object, comprising: an environment detection sensor (10) for detecting the objects; an attaching device (20), connected to the environment detection sensor (10), for temporarily attaching the portable sensor system (100) to an external surface of the mobile object; and a position determining apparatus (32) for determining a sensor position of the environment detection sensor (10) when the environment detection sensor (10) is attached to the external surface; wherein the position determining apparatus (32) is configured to determine the sensor position relative to the mobile object on the basis of a predetermined geometrical model of the external surface and a region of the external surface detected by the environment detection sensor (10). The invention also relates to a method for detecting objects in the environment of a mobile object, the method comprising: temporarily attaching an environment detection sensor (10) to an external surface of the mobile object; detecting a region of the external surface by means of the environment detection sensor (10) attached to the external surface; determining a sensor position of the environment detection sensor (10) relative to the mobile object on the basis of a predefined geometric model of the external surface and the region of the external surface detected by the environment detection sensor system (10); and detecting objects in the environment of the mobile object by means of the environment detection sensor (10), relative to the mobile object.

Fig. 1