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(57) Abstract :

The present disclosure relates to a method (200) and system (100) for determining direction by an autonomous robot (104).

The method comprises receiving one or more inputs in respect of a source location and a destination location and determining a shortest pathway from the source location to the destination location through accessible road or maze. The method further comprises obtaining one or more nearby obstacles by an overhead image capturing unit (130) at the time of journey on the determined shortest pathway.

The method includes acquiring a plurality of variables on basis of obtained one or more nearby obstacles in the determined shortest pathway and generating an angular direction of a maneuvering equipment as output variable by a fuzzy logic model to provide optimum path to reach destination location after circumventing the obstacle, wherein the fuzzy logic model receives the plurality of variables as input variables.

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