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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a multipurpose assistant robot includes sensors configured to capture images of surroundings of a multi-purpose assistant robot, sense position, speed of the multi-purpose assistant robot. The sensors are operatively coupled to a processing device and transmit a sensor data comprises of captured images, sensed position, and speed of the multi-purpose assistant robot to the processing device. The processing device configured to receive the sensor data from the sensors. The processing device is configured to analyze the sensor data to identify the obstacles in the multipurpose robot path. The processing device is configured to provide safe path planning using algorithms and also modify base motors control signals to adjust the multipurpose robot speed, direction, movements; and The processing device enables a user to select specific modes through voice commands. The specific modes are configured to perform particular actions. FIG. 1

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