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(57) Abstract :
The proposed system is modeling a system of reading, monitoring and controlling pollution parameters and informing pollution control authorities when any one of those factors goes higher than industry standards. The proposed robot is implemented to assist farmers in their agricultural field. The robotic system can perform pest management by making use of sensors and camera. The controlling technology of the entire system is Raspberry Pi and a camera module is also provided in order to identify the type of plant. The proposed robot is composed of Four DC motors are attached to the wheels on either side such that each side is driven by two motors each. A 12V battery supply is fed for the operation of wheels. The movement of the robot is guided by line follower robotic system using IR sensor that is fixed on the robot™s body. Using the camera module fixed on board the raspberry pi which controls the whole robotic system identifies the plant and sprays adequate pesticide.

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