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(57) Abstract :
Exemplary embodiments of the present disclosure are directed towards an autonomous firefighting robot. The robot includes a robot body with a metal frame and multiple wheels mounted at the corners for movement. A driving module is located inside the robot body, connected to the wheels for driving the robot. The robot body may further include a control system with a fire detection module and a navigation module. The fire detection module detects the fire location and generates location data. The navigation module configured to plan an optimal path to reach the fire. A robot may further include a fire extinguishing system located on the top front portion of the robot body, operatively connected to the control system. The control system sends a signal to the fire extinguishing system to release the fire suppressing agent and extinguish the fire. FIG. 1

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