

Design of a firefighting robot.

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Abstract: This topic focuses on researching and designing a robot-based automation system to support firefighting operations. In the context of the increasingly serious risk of fires, effective preventive measures are necessary. The main objective is to build a firefighting robot capable of flexible movement, detecting and extinguishing flames. By integrating sensors, automation technology, and artificial intelligence, this system aims to improve the efficiency and safety of fire emergency response.

Keywords: firefighting robot, automation, fire detection, AI applications in fire prevention and fighting