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Smart Assistant Firefighter Equipment (SAFE)

Innovative approach to overcome main limitations for tracking first responder inside indoor firefighting operations

SAFE

SMOKE

Failure of laser and vision-based tracking technologies

Heat and flames

Failure of pre-installed monitoring devices

GPS

inefficiency in indoor spaces

How SAFE Works



01

IMU (Inertial Measurement Unit)

Recording the position and movement of firefighters' legs



Health Bracelet

Acquisition of firefighter vital signs

02



03

Main processing unit

Receiving and processing data from IMU and Health Bracelet and transmit them to the gateway



SAFE Gateway

Collecting and monitoring all firefighters information

04

Unique Features

- Make a personal profile for each firefighter
- Assign a unique ID to each firefighter
- Two-dimensional and three-dimensional display of firefighters spatial information
- Comprehensive and real time monitoring of the operation process by the operation manager
- Accuracy and precision (Less than one meter error)
- Ask for help from the firefighter
- Display the charging status of the devices
- The exact location display of the injured firefighters to the rescue team in case of danger
- Display of firefighters' vital signs such as heart rate, body temperature, blood oxygen level, and blood pressure
- Following real time location base on the building plan

