

# Fabrication of smart alarm service system using a tiny flame detection sensor based on a Raspberry Pi.

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# Fabrication of smart alarm service system using a tiny flame detection sensor based on a Raspberry Pi

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### Title & Authors

**Fabrication of smart alarm service system using a tiny flame detection sensor based on a Raspberry Pi**  
[Lee, Young-Min; Sohn, Kyung-Rak;](#)

### Abstract

Raspberry Pi is a credit card-sized computer with support for a large number of different devices and for usage in a wireless network. It can communicate remotely, therefore increasing its suitability for the construction of a smart alarm service system. The system's operation and decision-making can be based on artificial intelligence, what is performed by determining the confidence of fire. In this paper, we demonstrated the use of Raspberry Pi for monitoring in a building. When the UV-flame sensors detect a flame as the

to notify the assigned smartphone of the on-site situation through the GC video streaming service in order to determine a false alarm. If an emerger

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**Keywords** Raspberry pi;Fire;Tiny flame detection sensor;Smart alarm;


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**Language** Korean

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