

Building a fire monitoring and warning application using IoT technology combined with an AI-based image processing model.

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Abstract: In the context of the rapid growth of IoT technology, this topic focuses on building an intelligent fire monitoring and warning system. The main objective is to develop a practical solution that can be widely applied in public and residential areas to prevent fires. Using a combination of theoretical research and experimentation, this topic will apply an AI image processing model to enhance the accuracy of the warning system. The expected outcome of the topic is not only an effective system but also the provision of new knowledge and methods in the field of fire safety.

Keywords: IoT, fire monitoring, AI, image processing, warning system