

and 96.8% from the VGG19 CNN model. The highest classification success was obtained from the Inception V3 model. The fire detection framework created with the three methods used in the study has a sufficient success rate to detect the fire. With the results obtained as a result of these 3 methods to be applied to the images, a decision can be made about the existence of the fire. Higher classification successes can be achieved by further developing the fire dataset used. Thanks to this fire framework, it is possible to detect the fire early and take the necessary precautions. Or it can be integrated into an automatically operating fire extinguishing system.

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