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|  | PNT2022TMID41730 |
|  | Emerging Methods For Early Detection of Forest Fires |
|  | 2 Marks |

Open source framework:

 The fire detection system starts by forming a color probability model for the segmenting fire region using the gaussian mixture model and expectation maximization (GMM-EM) methods.

 Then, the model is trained based on a dataset containing varying fire colors.

 This model would find the fire region candidates in the video frames extracted from the video input.

 After obtaining the candidates, the machine learning were performed for verifying them based on the color histogram.

EG:(HSV, YCbCr, or RGB)

