

## LITERATURE SURVEY

S.NO	TITLE	AUTHOR	TECHNIQUES USED	ADVANTAGES	DISADVANTAGES
1	Optimization of Geographic Information Systems for Forest Fire Risk Assessment, 2020 21st International Symposium on Electrical Apparatus & Technologies (SIELA)	Martina PETKOVIĆ; Iv an GARVANOV; Dragan KNEŽEVIĆ; S1 avoljub ALEKSIĆ	geographic information system	The performed geographic information systems optimization enables easier and faster forecasting of critical points that could be threatened by fire	GIS are not effective in all cases.

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2	Evaluation of Random Forest model for forest fire prediction based on climatology over Borneo, 2019 International Conference on Computer, Control, Informatics and its Applications (IC3INA)	Hanh Dang–Ngoc; Hieu Nguyen–Trung	Random forest algorihtm	Random forest algorithm is considered as one of the best prediction algorithms	Though random forest is best for prediction , it couldn't handle large data

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3	Aerial Forest Fire Surveillance – Evaluation of Forest Fire Detection Model using Aerial Videos, 2019 International Conference on Advanced Technologies for Communications (ATC)	Martina PETKOVIĆ;Ivan GARVANOV; Dragan KNEŽEVIĆ;Slavoljub ALEKSIC	motion feature, smoke detection	Smoke detection rate is improved to 91.48 %	Since hardware devices are used for video detection , it seems to be costly

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4	Speculation of Forest Fire Using Spatial and Video Data, 2019 International Conference on Advanced Technologies for Communications (ATC)	T.L. Divya;M.N. Vijayalakshmi;Anupama Kumar S.	Image processing	The histograms represent the fire places along with intensity based on fire severity in the forest the fire video with frame numbers	A histogram can present data that is misleading.

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5	Early Detection of Forest Fire Based on Unmaned Aerial Vehicle Platform	Xingsha Yang;Linbo Tang;Hongshuo Wang;Xinxin He	UAV	Compared with the previous single source fire detection method, this method uses optical and infrared data to conduct fire discrimination, which enhances the robustness of the discrimination result	Finally, although there are more public data sets, the lack of evaluation criteria and evaluation platforms for unified video smoke detection, especially the smoke area labeling in the video, remains unresolved