

| TITTLE   | AUTHOR AND YEAR   | PROBLEM PROPOSE D   | LIMITATIONS   | PROBLEM SOLUTION  |
|--|---|---|---|---|
| Emerging method for early detection of forest fires using unmanned Aerial vehicles and Lorawan sensor network    | G.V.Hristor<br>Diyana kyuchukova<br>Jordan Raychev(2018)                  | There are primary aimed at the early detection of the fires           | Cause devastating damage to both nature and humans,air pollution,every fire huge amounts of gases released in the atmosphere                              | The modern IR cameras,unmanned aerial vehicles in fight against the forest fires as replacement of the piloted aircrafts  |
| Holistic approach of forest fire protection of split and Dalmatia country of croatia                             | Darko stipanicev<br>Ranko vujic(2014)                                     | Dalmatia is highly affected by forest fires during the summer         | Rusting in burned down wood mass of 125.000ms which expressed in energy   | 1.To animate and make financially attractive for local inhabitants collecting of lopping,chopped wood,dry trundles on the massive scale<br>2.Thin forests and keep the wooded area as clean and passable as reasonably possible |
| A review on early forest fire detection systems using optical remote sensing                                     | Panagiotis barmpoutis<br>Konsmas dimitropoulas<br>Nikos grammalidis(2020) | To review a review of early forest fire detection systems             | These are affected by weather conditions and in many cases,their flight time is limited   | Early fire detection multispectral imaging systems,terrestrial,aerial,satellite, Artificial intelligence  |
| The influence of climate change on forest fires in Yunnan province, Southwest china detected by GRACE satellites | Lilu cui<br>Chaolong yao<br>Zhengbo zou(2022)                             | The analyze the influence of climate change on forest fires in Yunnan | Climate change affects the occurrence of forest fires by changing the dryness of combustibles through temperature, Precipitation, Evapotranspiration etc. | The results show that GRACE satellites can detect the influence of climate change on forest fire Yunnan province  |
| S-mart forest fires  | Hamdy soliman(2010)   | This aim of this paper  | Forest fire all costly and  | The SFFEDSS unit able to not only detect fire but also  |

|   |  |  |  |  |
|---|--|--|--|--|
| early detection sensory system: Another approach of utilizing wireless sensor and neutral networks                  |  | is to implement a forest fire early detection system using small and cheap sensor nodes which can be left unattended   | dangerous because they cause extensive damage both to property and human life  | accurately report the direction of fire progress which is deduced from the wind direction  |
| Adoption of image surface parameter under moving edge computing in the construction of mountain fire warning method | Chen cheng<br>Hui zhou<br>Danning wang(2020) | The purpose of this study is to project mountain fires based on MEC  | Due to the importance of natural and human activities, fire hazard is extremely easy to occur, affects the safety of maintain resource and human life and property | 1.A hierarchical discriminant analysis algorithm for image feature extraction.<br>2.The design of mobile image acquisition software.<br>3.Image recognition an optimization algorithm under MEC environment. |
| Natural hazards wildfires   | Prof.David(E.Alexander)                      | Forest and rangeland fires are a source of important ecological and economic damage. A wildfire burns out of control and threatens people buildings or resources | 1.Lightning strikes<br>2.Human negligence and vandalism (greatest at the urban rural interface)  | Do not burn any materials that are combustible or unusual in nature  |