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| Team ID | PNT2022TMID52078 |
| Student Name | V.Anusha  P.Anusuya  A.Babitha  S.Ganesan |

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| S.NO | Title | Author | Year | Inference |
| 1 | generic model  for fire and smoke detection without the use  of sensors | Celik | 2007 | * Color models such as   YCbCr, HSV are used for fire and smoke  detection   * The fire is detected using YCbCr   color model samples because it distinguishes luminance and chrominance |
| 2 | fire detection  system based on Neural Network | Cheng | 2011 | * neural network is used in detection   information for temperature, CO  concentration,   * RBF neuron   structure is used, the information regarding  temperature, CO concentration, and smoke  density |
| 3 | another  method using NN and Multi-threshold  algorithm | Zhanqing | 2001 | * In this method the NN not only   classify the smoke, sky, background but  also generates a continuous random output  representing mixture of these   * These two approaches may be combined or   used separately depending on the size of the  area |
| 4 | Automatic Detection of Fire Smoke | Zhanqing Li, Alexandre Khananian | 2001 | * Artificial Neural Networks and   Threshold Approaches Applied to  AVHRR Imager   * IEEE transactions on   geosciences and remote sensing, vol. |
| 5 | Vision-  Based Fire Detection in Videos, | Paulo Vinicius Koerich Borges | 2010 | * Computer vision based approach is used in   this approac   * There are large variations in fire   and background characteristics depending  on the video instance |