IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 1, July 2022
Impact Factor 6.252

Innovative Protection of Valuable Trees Form Smuggling Using Artificial Intelligence and Image Processing

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Abstract: *In recent years poaching or smuggling of environmentally and economically important species of trees in forested areas- such as Sandalwood, Teakwood, Pine and Rosewood has tremendously increased. There have been several initiatives undertaken by different stakeholders– and in particular by the Govt. of India, to mitigate these problems. These include the recruitment, training, and deployment of anti-poaching watchers and/or private/govt. security guards across forests. Strict punishments for convicted offenders, as well as giving special incentives for anti-poaching activities (Twelfth Five Year Plan 2012-2017) were aimed at eradicating the menace. The main idea presented in this paper is to design an image processing through the camera. It will be mounted in a forest area, capable of detecting theft as well as automatically initiating send alert signals.*

Keywords: Image Processing, Tree Smuggling, Webcam, Tensor Flow, Python, Artificial Intelligence

REFERENCES

[1]. Santhosh Hebbar, Praveenraj Pattar, Rajeshwari Madli, Varaprasad Golla, "Sandalwood tree protection using Bluetooth version 4.0", in International Conference on Computing and Network Communications (CoCoNet), December 2015. (IEEE).
[2]. Suguvanam K R, Senthil Kumar R, Partha Sarathy S, Karthick K, Raj Kumar S "Innovative Protection of Valuable Treesfrom Smuggling Using RFID and Sensors", in International Journal of Innovative Research in Science, Engineering andTechnology, Vol.6, Issue 3, March 2017.
[3]. Iron gaurds to protect sandalwood.http://www.thehindu.com/news/cities/Coimbatore/ iron-guards-to-protect-sandalwood-trees/article6404284.ece
[4]. http://www.siriagrigroup.com/fag/98-what-are-the-risks involved-insandalwood- plantation- and-how-does-siri-agri-group-take-care-of-theserisks
[5]. Akshay D. Sonwane, V N Bhonge, and Ajay Khandare, "Design and Development of Wireless Sensor Node for Anti-Poaching", in International Conference on Communication and Signal Processing, April 6-8,20I6. (IEEE)
[6]. Pero Skorput, Sadko Mandzuka, Hrvoje Vojvodic, "The Use of Unmanned Aerial Vehicles for Forest Fire Monitoring", ininternational Symposium ELMAR, 12-14 September 2016. (IEEE)
[7]. GSM – Architecture, Features and Working by Tarun Agarwal.
[8]. Mohan Sai.S, Naresh K, RajKumar.S, Mohan Sai Ganesh, LokSai, Abhinav, "An Infrared Image detecting System model tomonitor human with weapon for controlling smuggling of Sandalwood Trees", in International Conference on Inventive Communication and Computational Technologies, August 2018.(IEEE)
[9]. P. Ripka and A. Tipek – Master Book on Sensors.
[10]. Prasad R, Khandar, K Deivanai, "Preventive System for Forests", in International Journal of Computer Science Trends and Technology (IJCST), March 2017

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