(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/07/2023

(21) Application No.202341050303 A
(43) Publication Date : 01/09/2023

(54) Title of the invention : Image Forgery Detection Based on Fusion of Lightweight Deep Learning Models

(51) International classification :G06N0003080000, G06N0003040000, G06K0009620000, G06N0020000000, G06F0021550000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)St. Martin's Engineering College
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr. Naga Venkateshwara Rao K Assistant Professor, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
2)Dr. S. V. S. Ramakrishnam Raju Professor, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
3)Ms. B. Naga Sravya Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
4)Ms. A. Alekhya Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
5)Mr. K. Ravi Teja Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
6)Ms. M. Gayathri Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
7)Mr. V. Venkatesh Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
8)Mr. S. Sai Suraj Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
9)Ms. K. Heeral, Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
10)Ms. D. Nikileshwari, Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
11)Ms. B. Chandana Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
12)Mr. Syed Sameer ,Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
13)Mr. Sameer Khan, Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
14)Mr. P. Saivishal Kumar ,Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------
15)Mr. K Venkat Vishal ,Student, ECE
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad ---------- ----------

(57) Abstract :
Image forgery detection based on the fusion of lightweight deep learning models is a new and promising approach for improving the accuracy and efficiency of detecting image tampering. This method involves combining the outputs of multiple deep learning models, each trained on different image features, to provide more robust and accurate detection of tampering while minimizing computational resources. This approach has important applications in the fields of forensics, journalism, and law enforcement, and ongoing research is focused on further developing and refining these techniques to improve their performance and reliability.

No. of Pages : 13 No. of Claims : 3