

OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 05/2022	शुक्रवार	दिनांकः 04/02/2022
ISSUE NO. 05/2022	FRIDAY	DATE: 04/02/2022

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A MACHINE LEARNING MODEL TO PREDICT THE SEVERITY OF CANCER AND TO DECREASE SURGICAL TREATMENT

(51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:G06N002000000, G01N0033574000, G06F0021570000, C12Q0001260000, A61B0010020000 :PCT/// :01/01/1900 : NA :NA :NA :NA	 (71)Name of Applicant : 1)Mr.R.Venkateswara Reddy Address of Applicant :Mr.R.Venkateswara Reddy , Assistant Professor , Department of Computer Science and Engineering , CMR College Of Engineering & Technology, Kandlakoya, Medchal, Hyderabad, Telangana - 501401, venkatreddyvari@cmrcet.ac.in, 9603904899 2)Mr.K. Sivabalan 3)Dr.Manmohan Singhal 4)Dr. Harish Rajak 5)Mr.Dipak Ramoliya 6)Dr.Shanker Chandre 7)Mr.V Naresh Kumar Reddy Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr.R.Venkateswara Reddy Address of Applicant : NA (72)Name of Inventor : 1)Mr.R.Venkateswara Reddy Address of Applicant : Mr.N. venkateswara Reddy, Assistant Professor , Department of Computer Science and Engineering , CMR College Of Engineering & Technology, Kandlakoya, Medchal, Hyderabad, Telangana - 501401, venkatreddyvari@cmrcet.ac.in, 9603904899 2)Mr.M. Sivabalan Address of Applicant :Mr.M. Sivabalan, Guest Lecturer, Department of Computer Science, Government Thirumagal Mills College, Gudiyattam-632602 3)Dr.Manmohan Singhal Address of Applicant :Dr.Manmohan Singhal, Associate Professor Faculty of Pharmacey, School of Pharmaceutical and Population Health Informatics, DIT University, Dehradun-248009 Uttarakhand. India
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(57) Abstract :

By creating a machine learnings model which distinguishes high-risk malignant lesions (HRLs) detected using image-guided needles biopsy which it requiring surgical resection from HRLs that are unlikely towards progress to cancers after operations and so may be monitored. From June 2006 to April 2015, participants with biopsy-proven HRLs who underwent surgery / had at least 2 years of ct follow-up were discovered. To detect HRLs with minimal risks of cancer progression, a randomized forests machine learning technique was constructed. Conventional factors such as age as well as HRL histological findings, as well as textual information from the biopsy pathological reports, are incorporated in the models. A total of 1,062 HRLs were discovered, with cancers upgrade rates of 6%. A separate piece of statistics was used to create as well as evaluate machine learning decisions, tree models. Aging & HRL histological findings are two of the most relevant conventional characteristics. Seriously unique was a key text element in the pathological findings. Rather than surgical resection of all HRLs, individuals deemed to be at minimal risks for upgrading might've been monitored as well as the remaining eliminated of cancers, allowing for the diagnosis of malignancy during surgeries as well as the avoidance of procedures for benign tumors.

No. of Pages : 16 No. of Claims : 4