

(54) Title of the invention : AN ADVANCED TUMOUR RECOGNITION BASED ON IOT AND ARTIFICIAL INTELLIGENCE IMAGE PROCESSING AND WORKING METHOD THEREOF

<p>(51) International classification :A61P0035000000, G06T0005000000, A61B0006000000, A61B0005055000, G06K0009620000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.K B S D Sarma Address of Applicant :Professor, Department of ECE, BVC Engineering College (Autonomus), Odalarevu, Dr.B.R.Ambedkar Konaseema District, Andhra Pradesh, India. Pin Code: 533201 -----</p> <p>2)Mr.Anandbabu Gopatoti 3)Mrs.K.Aruna Kumari 4)Prof.Harish Kumar G R 5)Dr.Vijendra Pratap Singh 6)Dr.P.Upendra Kumar 7)Dr.K.Gurnadha Gupta 8)Dr.K.Rajasekhar 9)Mr.Tammireddy Siva Sankara Phani 10)Dr.Akula Pravin Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.K B S D Sarma Address of Applicant :Professor, Department of ECE, BVC Engineering College (Autonomus), Odalarevu, Dr.B.R.Ambedkar Konaseema District, Andhra Pradesh, India. Pin Code: 533201 - -----</p> <p>2)Mr.Anandbabu Gopatoti Address of Applicant :Department of ECE, Hindusthan College of Engineering & Technology, Coimbatore, Tamil Nadu, India. Pin Code: 641032 -----</p> <p>3)Mrs.K.Aruna Kumari Address of Applicant :Assistant Professor, Department of CSE-Data Science, Chalapathi Institute of Engineering and Technology, Lam, Guntur, Guntur District, Andhra Pradesh, India. Pin Code:522001 -----</p> <p>4)Prof.Harish Kumar G R Address of Applicant :Department of Computer Science, College of Computer Science, King Khalid University, Abha, Saudi Arabia. Po.Box:61421 -----</p> <p>5)Dr.Vijendra Pratap Singh Address of Applicant :Assistant Professor, Department of Computer Science & Applications, Mahatma Gandhi Kashi Vidyapith, Varanasi, Uttar Pradesh, India. Pin Code:221002 -----</p> <p>6)Dr.P.Upendra Kumar Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, GMR Institute of Technology, Rajam, Vizianagaram (District), Andhra Pradesh, India. Pin Code:532127 -----</p> <p>7)Dr.K.Gurnadha Gupta Address of Applicant :Assistant Professor, KL Deemed to be University, Green fields, Vaddeswaram, Guntur, Andhra Pradesh, India. Pin Code:522502 -----</p> <p>8)Dr.K.Rajasekhar Address of Applicant :Professor, Department of ECE, BVC Engineering College (Autonomus), Odalarevu, Dr.B.R.Ambedkar Konaseema District, Andhra Pradesh, India. Pin Code: 533201 - -----</p> <p>9)Mr.Tammireddy Siva Sankara Phani Address of Applicant :Associate Professor, Department of ECE, BVC Engineering College (Autonomus), Odalarevu, Dr.B.R.Ambedkar Konaseema District, Andhra Pradesh, India. Pin Code: 533201 -----</p> <p>10)Dr.Akula Pravin Address of Applicant :Professor and H.O.D, Department of ECE, BVC Engineering College (Autonomus), Odalarevu, East Godavari District, Andhra Pradesh, India. Pin Code:533210 --- -----</p>
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(57) Abstract :

[025] The present invention discloses an advanced tumour recognition based on IoT and Artificial Intelligence image processing and working method thereof. In the present invention, first, the MRI examines the patient with a brain tumour using an IoT device, chooses the deck with the highest concentration of midbrain tumours, and performs pre-services like denoising, augmenting, and brain tumour splitting; and second, the Gabor wavelet's textural features on multiple scales and directions are extracted from the brain tumour image. The k-dimensional feature vector for a tumour is constructed by first drawing a set of concentric circles around the tumor's centre, and then measuring the distance between the centres to get a sense of the tumor's overall shape. Accompanied Drawing [FIGS. 1-2]

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