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(54) Title of the invention : AN IMAGE PROCESSING SYSTEM WITH CONVOLUTIONAL NEURAL NETWORK MODULES AND METHOD THEREOF

<p>(51) International classification :G06N0003040000, G06N0003080000, G06K0009000000, G06K0009620000, G06T0001600000</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.D.Neelima Patnaik Address of Applicant :Assistant Professor in Physics, Department of Humanities and Sciences, CMR College Of Engineering & Technology, Hyderabad, Telangana, India. Pin Code:510410 -----</p> <p>2)Dr.Bandi Asha Latha 3)Mrs.Vishnu Priya Thotakura 4)Mr.Naga Jayanth Chennupati 5)Mr.Pramod Prakashrao Patil 6)Dr.Rabinarayan Satpathy 7)Dr.Sushma Jaiswal 8)Mrs.N.Jeebaratnam 9)Mr.Tarun Jaiswal 10)Dr.N.Chintaiah Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.D.Neelima Patnaik Address of Applicant :Assistant Professor in Physics, Department of Humanities and Sciences, CMR College Of Engineering & Technology, Hyderabad, Telangana, India. Pin Code:510410 -----</p> <p>2)Dr.Bandi Asha Latha Address of Applicant :Associate Professor, Department of CSE, SRK Institute of Technology, Vijayawada, Andhra Pradesh, India. Pin Code:521108 -----</p> <p>3)Mrs.Vishnu Priya Thotakura Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, SRK Institute of Technology, Vijayawada, Andhra Pradesh, India. Pin Code:521108 -----</p> <p>4)Mr.Naga Jayanth Chennupati Address of Applicant :Student, School of Computer Science and Engineering, VIT-AP University, Amaravati, Andhra Pradesh, India. Pin Code : 522237 -----</p> <p>5)Mr.Pramod Prakashrao Patil Address of Applicant :Assistant Professor, Department of Information Technology, Vishwakarma Institute of Technology, Pune, Maharashtra, India. Pin Code: 411037 -----</p> <p>6)Dr.Rabinarayan Satpathy Address of Applicant :Professor CSE (FET) and Director of the Office of the VC, Sri Sri University, Cuttack, Odisha, India. Pin Code: 754006 -----</p> <p>7)Dr.Sushma Jaiswal Address of Applicant :Assistant Professor, Department of Computer Science & Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur, Chhattisgarh, India. Pin Code: 495009 -----</p> <p>8)Mrs.N.Jeebaratnam Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Centurion University of Technology and Management, Paralakhemundi, Odisha, India. Pin Code:761200 -----</p> <p>9)Mr.Tarun Jaiswal Address of Applicant :Research Scholar, Department of Computer Application, National Institute of Technology (NITRR), Raipur, Chhattisgarh, India. Pin Code:492010 -----</p> <p>10)Dr.N.Chintaiah Address of Applicant :Assistant Professor, Department of ECE, Chaitanya Bharathi Institute of Technology Hyderabad, Telangana, India. Pin Code:500075 -----</p>
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(57) Abstract :
[035] The present invention discloses an image processing system with convolutional neural network modules and method thereof. The system includes, but not limited to, one or more processing units connected with a memory unit for receiving an image processing data by using a state of the convolutional neural network and consisting a plurality of textures representing one or more neural network variables, wherein the plurality of textures further comprises a texture with two-dimensional addressing, and represents a neural network variable having a predetermined weight function with addressing of multiple dimensions which has been flattened into two dimensional addressing, and defining addresses of values represented in the texture with two-dimensional addressing through linear combinations of x-axis and y-axis offset coordinates from the upper-left corner of an output texture. Accompanied Drawing [FIG. 1]

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