Patent Search

Invention Title	MEDICAL IMAGING ANALYSIS FOR PREDICTING A DIAGNOSIS OF A NEUROBEHAVIORAL DISORDER
Publication Number	51/2022
Publication Date	23/12/2022
Publication Type	INA
Application Number	202221072097
Application Filing Date	14/12/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A61B0005000000, G16H0050200000, A61B0005055000, G06T0007000000, A61B0005160000

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Abstract:

MEDICAL IMAGING ANALYSIS FOR PREDICTING A DIAGNOSIS OF A NEUROBEHAVIORAL DISORDER A medical imaging analysis for predicting a diagnosis of a neurobeh disorder. The method comprising a neurobehavioral disorder diagnosis module implemented using the at least one processor, wherein the NDDM is configured for r brain imaging data for a human subject. Receiving brain imaging data for a human subject of a first age, wherein the brain imaging data includes functional connectiv resonance imaging data, wherein the first age is under two years, wherein the first age comprises an age at which the human subject is presymptomatic with respect neurobehavioral disorder. The NDDM is configured for performing an intervention action based on the predicted neurobehavioral disorder diagnosis using a comput compare a parameter of each of the voxels being assessed from the image from the subject with a parameter of each of a corresponding voxel from a computer data images from a control group of subjects. Generating with the computer system, a biomarker associated with the neuropsychiatric, neurodevelopmental, neurobehavi other neurological disorder by computing a correlation between the functional imaging data and the clinical data using a multivariate classifier.

Complete Specification

Description:MEDICAL IMAGING ANALYSIS FOR PREDICTING A DIAGNOSIS OF A NEUROBEHAVIORAL DISORDER

BACKGROUND

Technical Field

[0001] The embodiments herein generally relate to a method for medical imaging analysis for predicting a diagnosis of a neurobehavioral disorder.

Description of the Related Art

[0002] An approach to identifying loci of brain injury in individual mTBI patients is needed to fully understand the nature and extent of mTBI pathology toward personalizing and improving clinical practice. The imaging methods themselves exist and are approved for human use, but are not utilized because no methods exis extract meaningful information from the images. Group-wise analyses of imaging have demonstrated evidence of injuries or pathologies associated with adverse cli outcomes. At present, no method is available that allows quantitative detection of imaging abnormalities on a voxelwise basis in individual patients.

[0003] Electroencephalogram (“EEG”), magnetoencephalography (“MEG”), positron emission tomography (“PET”), infrared (“IR”) imaging, single photon emission computed tomography (“SPECT”), and computed tomography (“CT”) have been proposed to directly examine a combination of brain regions that have been implicat various brain functions, including dysfunction pertaining to psychiatric conditions and illnesses.

SUMMARY

[0004] In view of the foregoing, an embodiment herein provides a method for medical imaging analysis for predicting a diagnosis of a neurobehavioral disorder. T

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202221072097
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/12/2022
APPLICANT NAME	1 . Dr Renuka Shankar Jadhav 2 . Dr Vineeta Pande 3 . Sulaxan Jadhav 4 . Dr. Smeeta Sudhir Sadar 5 . Mrs.V.Radha 6 . Dr. Ranjith kumar Gatla 7 . Mr.Ankur Agrawal 8 . Dr Atowar ul Islam 9 . Mr. Eric Lin 10 . MR. L. KARTHICK 11 . MR. A.Nazeer Ahamed
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FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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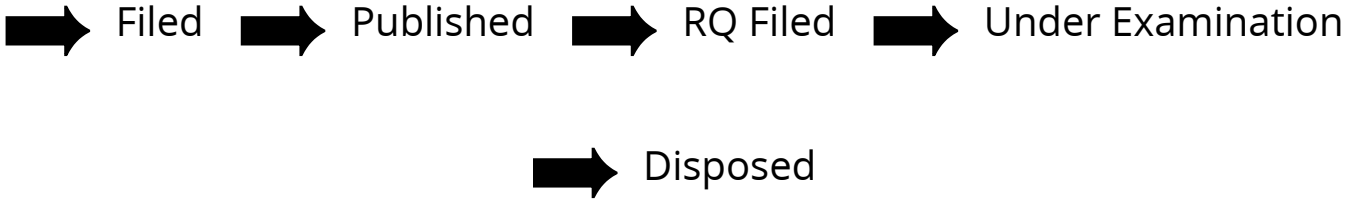
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/12/2022

Application Status

APPLICATION STATUS	Awaiting Request for Examination

			View Documents



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