

(54) Title of the invention : EQUIPMENT FOR DETECTING EMOTIONS, NEUROLOGICAL DYSFUNCTION, AND SPEECH IMPAIRMENTS

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(57) Abstract :
 One of the most significant criteria in the highly sophisticated world of today is the capacity to think before replying and analyse the cognitive capacities of another person while listening. The present disclosure relates an equipment (100) and method for detection of emotions, neurological dysfunction and speech impairments in real-time, through the technology that examines pupil size while doing the set of tasks and determines cognitive capacity via speech and handwriting. The equipment utilises height adjusting depth cameras, microphones, speakers, keyboard and notepad to extract features from subject thereby converting features to text data. With the use of optimisation and simulation techniques the processor develops matrix for number of similarity scores and develop a hypothesis, resulting in assessment of subject's emotional behaviour and speech impairments.

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