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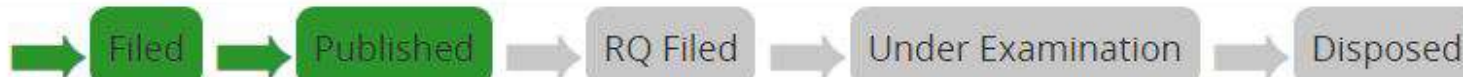
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(57) Abstract :

The proposed invention is a system to detect and extract emotions from artwork using advanced technologies such as machine learning and image processing. The system is designed primarily to aid with the process of art therapy for children with Autism Spectrum Disorder. The invention provides for a fully automated emotion detection system, with the inferior alternative being the manual analysis of a person's drawing over the course of several months. According to the World Health Organization (WHO), it has been estimated that as of 2021, one in 160 children has autism. Some studies have reported higher numbers in adults as well, since ASD affects people of all ages. A broad range of interventions and treatment plans can optimize and ensure the development, well-being and quality of life of people with autism. The proposed method aims to alleviate the struggles faced by people who undergo art therapy and make it easier for parents and caretakers to monitor their progress. This invention proposes an effective way to allow people with ASD to express themselves and for parents to analyze their emotions while maintaining confidentiality. The deep learning backend made of the CNN is fast, accurate and produces outputs in real-time. The system is secure and includes a login functionality to ensure performance without compromising security. Overall, the invention has the potential to revolutionize art therapy the way that the process is automated. It will uplift the ASD community by increasing their development in all fields and allowing progress tracking in a more effective manner.

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