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(54) Title of the invention : RECOGNIZING TRAFFIC SIGNS USING AI

(51) International classification : B82Y 200000, C08G 183800, C08G 184800, C09K 110600, G06F 030484	(71)**Name of Applicant :**
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(57) Abstract :
The invention proposes a system and method for Traffic sign recognition using AI. By leveraging AI algorithms, the system can accurately detect and interpret traffic signs in real-time, providing drivers with valuable information and alerts to enhance their awareness on the road. Regardless of weather conditions or varying lighting situations, the AI system can reliably identify and interpret traffic signs, ensuring consistent performance and accuracy. This is particularly crucial in scenarios where human visibility might be compromised, such as during heavy rain, fog, or at night. The system can promptly alert drivers about important traffic signs, enabling them to stay focused and make informed decisions while driving. By providing timely reminders and notifications, the risk of accidents resulting from driver errors or lapses in attention is reduced. Moreover, AI algorithms can continuously learn and improve their performance over time. Through the integration of AI technology, road users can benefit from enhanced situational awareness, leading to safer and more responsible driving practices.

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