

Design of a remote alcohol concentration monitoring system

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Abstract: This topic is proposed to meet the practical need for monitoring driving safety and protecting the community from the risks posed by alcohol. The objective of the research is to build a remote alcohol concentration monitoring system capable of quickly determining the intoxication level of drivers while operating a vehicle. The approach includes using infrared sensor technology to collect data, integrated with classification and recognition algorithms to process information effectively. Through this, the topic is expected to provide a comprehensive solution for the traffic safety system, contributing to improving the quality of life and reducing traffic accidents caused by intoxication.

Keywords: Remote alcohol concentration monitoring, Infrared sensor, Image classification, Traffic safety research