

# 1. IN202241010316 - IOT AND AI WITH CLOUD BASED IDENTIFICATION OF ACCIDENT-PRONE SITES USING AD-HOC NETWORKS AND RASPBERRY PI



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**Title**

[EN] IoT and AI with Cloud Based Identification of Accident-Prone Sites Using Ad-Hoc Networks and Raspberry Pi

**Abstract**

[EN] IoT and AI with Cloud Based Identification of Accident-Prone Sites Using Ad-Hoc Networks and Raspberry Pi Abstract: Increased vehicle traffic may result in an increase in accidents. Finally, we suggest an intelligent system capable of determining the precise site of an accident in order for emergency services to respond quickly and aid. This document explains how to build a system that includes an OBD-II interface, Trackers, and a microcontroller that acts as an instrument cluster. 'The G-forces experienced by passengers in contact with one another will aid us in deciding whether a given circumstance is an accident or not.' A positive detection initiates additional server-side measures that restrict network traffic and log the incident in a centralised database shared by all setup holders. Another way that this technology may assist emergency responders is by enabling them to arrive at a traffic incident more quickly than they would otherwise.

