

Review Form 1.6

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_88809
Title of the Manuscript:	Development of Deep Neural Network Model for the Prediction of Road Crashes in Real Time
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljerr.com/index.php/JERR/editorial-policy>)

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>Real time traffic and crash prediction is significant, which can effectively reduce the likelihood of crashes and to improve post-crash response. In this paper, the author(s) developed GoogleNet Convolutional Neural Network to classify road conditions and predict crashes along Ondo – Akure single carriage highway in Nigeria. Then, by the empirical experiments, the author(s) showed the effective performance of the used model.</p> <p>The topic of this paper is interesting and significant. I have the following comments:</p> <ol style="list-style-type: none"> 1. In Table 1, the author(s) used "one-time random seed" to divide data into training and validation sets by a ratio of 70:30. I suggested that it is better to use "cross validation", i.e., uses multiple random seeds, such as 5 random seeds, to obtain the final performance by mean and standard error. In this way, it also makes us to observe the fluctuation of the model's performance. 2. The figures, e.g., Figures 2, 3, and 5, look not so clear; it's best to use pixel-level images. 	
Minor REVISION comments	<p>There are several tiny issues:</p> <ol style="list-style-type: none"> 1. In Ref. 3, "Xiaochi, w." should be "Xiaochi, W. " . 2. In Refs. 3 and 17, the year "2013" appeared repetitively. <p>In addition, in References, there are some format inconsistencies, for example, the journal name in Refs. 14 and 17, sometimes italics, sometimes not.</p>	
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Xinxing Wu
Department, University & Country	University of Kentucky, United States