

**Review Form 3**

Journal Name:	<a href="#">Advances in Research</a>
Manuscript Number:	Ms_AIR_123837
Title of the Manuscript:	Concrete crack recognition based on image deep learning
Type of the Article	Opinion Article

### Review Form 3

#### **PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b>		
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>		
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>		
<b>Are subsections and structure of the manuscript appropriate?</b>		
<b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b>		
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>		

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<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>		
<p><b><u>Optional/General</u></b> comments</p>	<p>Page:2 Line :18 - "It simulates the nervous system structure of the human brain and processes and learns data through a series of neuron layers" – reference needed</p> <p>Page: 2 Line :21 - " The neural network is composed of one or more neurons, which communicate with each other." - reference needed</p> <p><b>Concrete crack recognition based on image deep learning</b></p> <p>Page:2 Line :30 - "The identification of cracks mainly includes three major tasks: crack classification, crack target detection." – only 2 tasks listed.</p> <p><b>Classification of the crack images:</b></p> <p>Page:3 Line :6 - " For cracks in building structures, due to the difference in their morphology, the relevant parameters of the structure reflected by the morphology are also different" – sentence not properly framed.</p> <p>Page:4 Line :25 - " The result matrices processed by different convolution layers are <u>spliced</u> together in the depth dimension to form a deeper matrix" – check the sentence</p> <p>Page:5 Line :22 - " The speed of the algorithm is 100 times that of fast-RCNN and 1000 times that of <u>RCNN</u>" – Expantion needed</p> <p>Page: 5 Line :25 - " <u>In the relevant literature</u>, it is shown that the mean average accuracy of the YOLO" – reference should be defined properly.</p> <p>Page:5 Line :26 - "<u>ThemAP</u> of the improved YOLOv2" – mistyped</p> <p>Page:5 Line :31 - " The YOLOv2 model deletes the fully connected layer <u>and the Dropout layer and adds the BN layer.</u>" – too much of and.</p> <p>Page:5 Line :31 - " adds the <u>BN layer.</u>" &amp; " Dropout layer is connected before the <u>BN layer</u>" – expansion to be given in bracket</p> <p>Page:6 Line :1 - " Compared with the initial YOLO, the prediction coordinate of the model does not directly predict the size of the target <u>box but is based on the</u> offset scaling of Anchor." – place some proper words.</p> <p>Page:6 Line :5 - " In this study, YOLOv2 is used for migration training, and the network used to train and identify <u>cars</u> is used to train and identify cracks." –misspelled</p>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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