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and ANTI-PLAGIARISM CONTROL

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I declare, I confirm, I certify and I sign that I received substantial, important, line by line peer review with several and substantial comments, important remarks and hints from, at least, 3 Reviewers and the Assistant Editor for my paper:

**Detection of Defects in PCB Images by Numbering, Measurement
of Chain Features and Machine Learning**

ID: wseas-1213

with Coauthor: **Viazovsky Pavlo**

I would like to thank all the reviewers for their thoughtful comments and efforts towards improving our manuscript. We revised the manuscript with special attention to the comments that we received from**Three (3)**.... (<-write the correct number) reviewers that were experts, specialists in the area of my paper.

I declare, confirm, certify and sign that WSEAS has checked my paper for possible plagiarism by Turnitin and my paper was found without plagiarism or self-plagiarism by Turnitin. I also declare, confirm, certify and sign that also that no Associate-Editor, no Editor-in-Chief, no member of the WSEAS Secretariat forced me in this Journal to add references (citations) to any previous publications of the journal.

I also declare, confirm, certify and sign that I have made all the changes, modifications, additions, studies, corrections asked by the reviewers and I have fully complied with their instructions. I also understand that before the publication the 3 (or more than 3) reviewers will check my paper to see if all the changes, modifications, additions, studies, corrections etc have been done and I authorize the WSEAS to publish my paper or to reject my paper even in the 2nd round of peer review or to continue with an additional round of peer review.

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Please, write additional comments below (take ideas from: <https://www.wseas.com/testimonials.php>)

The magazine is friendly to authors, it is easy for them to work.

Signature (insert an image file with scanned signature or print out the whole page, sign and scan)

A handwritten signature in black ink, appearing to be 'A. S. M.', written in a cursive style.

Date: 12-12-2024

The first message was as follows:

Congratulations, the Associate Editors told us your paper has been accepted as follows
(note that for some papers the Associate Editors changed journal, but all

.....

wseas-1213 WSEAS TRANSACTIONS ON CIRCUITS AND SYSTEMS Detection of Defects
in PCB Images by Numbering, Measurement of Chain Features and Machine
Learning

The second was the following message:

Congratulations, your paper Wseas-1023
has been accepted in the Journal:

WSEAS Transactions on Circuits and Systems** (Scopus Indexed)

See the comments from the 3 independent reviewers at the end of this email

Having received such messages, we sent a revised article with the number ID-1023 instead of
ID-1213. With a certificate and a response to the reviewers.-And that is why we asked about the
fate of this article. If it is possible to accept it, then please. If not, then some kind of error has
occurred.

Reply to the Reviewers,

Reviewer 1 :

1. The reason is that the article has some grammatical errors
In order to improve his paper, the authors may copy-paste his text inside
the GMAIL.

*Before the first submission, the text was checked by Google Translator and Grammarly.
Maybe some mistakes were missed.*

Now the text was checked twice: by Gmail and by Grammarly.

*A small number of mistakes (articles, prepositions) were corrected. For small numbers of
cases GMAIL proposed to use PREMIUM.*

Reviewer 2:

1. _Check also if the in-text citations exist in the reference list
Also Check if all the articles in the reference list exist in the in-text
citations.

All in-text citations exist in the reference list and all the articles in the reference list exist in the in-text.

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2. Give more details for the Overlay of PCB image with skeleton, and two filled chains (Fig 2).

3. The flood-filling algorithm needs expansion and more explanations. Illustrate this method with an example.

Some details about the principles of the flood-filling algorithm are added. A reference on the known thinning algorithm used in the work is placed in the reference list. The skeleton in Fig. 2 illustrates the results of the thinning algorithm.

All chains and trees in full color (not black) in the Figures are the results of the flood-filling algorithm.

4 The Session “Separation of defects” needs more improvements and clarifications.

Illustrate the techniques with two examples

Some details about the principles of the separation of chains are added. The main principles are finding the pixel coordinates accepted as the starting points and marking the chains with various colors. Then measured characteristics of the chain could be easily selected for further processing. All chains with different colors illustrate the separation of chains.

5. Add some references from the Journal WSEAS Transactions on Systems

Two references are added from the Journal WSEAS Transactions on Systems. They consider Machine Learning.

6. Improve the English Language

Now the text is checked twice: by Gmail and by Grammarly. An order of words in the sentences is corrected if needed.

Reviewer 3:

Pay close attention to the references. The reference list was checked and corrected if needed. Maximum 10% of their citations to their previous publications with a maximum number of 5 only one reference in the WSEAS Journal. Also, the references must have a diversity of authors, journals, and countries - diversity is confirmed.

Conclusion. The text was checked, and corrections were made.

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Thank you for your work and we apologize for having missed the inaccuracies and some detailed explanations.

Authors.