



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_30783
Title of the Manuscript:	Generation of Checkered Patterns and Their Variations by Making Use of Eulerian Graph Features
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.

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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	The paper just do an exercise of generating a graph (planar bipartite) based on neighbourhood (with a proximity measure) of regions, and colouring such a graph (with two colours). The contour extraction are not explained and the bipartition algorithm are over detailed. There many images with experiments, but there are not enough research material. The paper is correct. Also, it does not let the reader know how the contours are extracted. The definition of the parameters seems to be manual, but it is not clear, but it should be an important part of the research.	Bitter words, I think. As for the contour extraction, explanation is added in the revision. As for over detailed, no change was tried. I am afraid that change may spread over the paper and that it might be difficult to adjust. What's more, another reviewer is requesting some revision in the section. As for the many experimental images, it is the author's intension to show many samples and experimental results. It is timely to do the demonstration about the checkered patterns using many samples because checkered patterns are used in the Emblem of Tokyo Olympic 2020. The first selection of the Emblem had been a controversy about the originality. The current Emblem is from the second selection. So people are paying attention to the emblem which includes checkered patterns, I think. As for how the parameters are given: parameters are given manually at the start of running the program. More discussions are given in the revision.



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<u>Minor</u> REVISION comments	- Lines 65-67 – the “It is known” could be more detailed. Stating the proper result as “the dual of a planar eulerian graph is bipartite”. - Section 3.1 – there is an algorithm for bipartitioning a bipartite graph. You can explain that you are doing two things at the same time: constructing the graph and bipartitioning it. - Line 132 – the number of the section should be 3.2. - lots of similar figures	As for “It is known” matter, it was revised as suggested. The algorithm bi-partitions the contours, just separating the contours into two sets. But the region adjacency graph (RAG) is completed later. It might have been vague. Clear explanation is given in the revision. Change to 3.2. It is the author’s intention to use a lot of samples. Author wants to show as many samples and situations as possible exhaustively. The manuscript has been much improved, I think. Thank you very much for the comments.
<u>Optional/General</u> comments		