



SDI Review Form 1.6

Journal Name:	<u>British Journal of Mathematics & Computer Science</u>
Manuscript Number:	Ms_BJMCS_21639
Title of the Manuscript:	Max-plus Algebra and application to Matrix Operations
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		
Minor REVISION comments	This paper study mathematical theory, called the max-plus algebra, which have the wherewithal for a uniform treatment of most problems that arise in the area of Operations Research. The basic properties of max-plus algebra is also explained including how to solve systems of max-plus equations. In this paper, the discrepancy method of max-plus is used to solve n_n and m_n system of linear equations where $m \leq n$. From the examples presented, it is clear that an n_n system of linear equations in $(R_{\max}; \leq)$ and $(R; +; \leq)$ either had One solution, an Infinite number of solutions or No solution. Also, both m_n system of linear equations (where $m < n$) in $(R_{\max}; \leq)$ and $(R; +; \leq)$ have either an infinite number of solutions or no solution. It is therefore clear that many characteristics of the max-plus algebraic structure can be likened to the conventional mathematical structures. Max-plus is used to solve different types of matrix operations. We also applied max-plus algebra in solving linear programming problem involving linear equations and inequalities. 1. It's a paper with interesting and meaningful topic, with full literatures supporting. 2. The whole analysis could be more comprehensive, and persuasive.	
Optional/General comments		

Reviewer Details:

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