

Review Form 1.6

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_83290
Title of the Manuscript:	Stepwise inversion of large matrices with the Gauss-Jordan vector transformation
Type of the 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.journaljamcs.com/index.php/JAMCS/editorial-policy>)

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)
<u>Compulsory</u> REVISION comments	<p>The presented paper describes concept of inverting matrices with the basis exchange algorithms which are based on the Gauss-Jordan vector transformation, and is also included an illustrative numerical example. A multistage process of reversing matrices with gradually increased computational complexity is described.</p>	
<u>Minor</u> REVISION comments	<p>Simplex algorithm from linear programming is defined by the exit criterion, entry criterion and the stop criterion [International series in management. Prentice- Hall (1966)]. Any basis exchange algorithm can also be defined by such criteria.</p> <p>The proposed method of inversion could make it possible to increase the size of the inverted matrices. This possibility is based on similarity to the Simplex algorithm of linear programming [Optim. Appl. 37(1), 49 -65 (2007)]. The presented stepwise method gives a possibility for a partial inversion of large matrices</p>	
<u>Optional/General</u> comments		

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PART 2:

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

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