

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)
Compulsory REVISION comments	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.	Noted
Minor REVISION comments	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. 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	Done
Optional/General comments		

PART 2:

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