



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	Ms_BJAST_22267
Title of the Manuscript:	A Genetic Algorithm with Neighborhood Search to Solve Integer and Linear Programming Problems
Type of the Article	Short 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.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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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	(i) Which Evolutionary algorithm, from commercial solver software? (ii) All the test problems considered here are LPP for which simplex method is the best way to find solution & it can be seen from this study too. Then why GA? (iii) Problem 2 & on page 6 are giving non-integer values though in this paper attempt has been made to solve ILP, Kindly clarify. Can Z be non-integer value?	(i) The commercial software used was Excel 2010 for Windows. In the solver it is possible to select the method Evolutionary that according to authors it is a variation of genetic algorithm and local search, http://www.solver.com/excel-solver-algorithms-and-methods-used (ii) The GA is able to find maximum or minimum without the need for reformulation of the mathematical model when looking for minimal which is the case for the simplex method that requires transpose it into a model called the dual without mentioning the need of slack variables. I am not against the simplex method but just exploring a different view during research and development of an app for android. (iii) It is possible that Z has a non-integer value because the objective function could be to minimize cost or maximize profit and the objective function coefficients could include



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		decimal points but what can not be non-integers are the variables those should remain integers in ILP. That is the case on problem 2.
<u>Minor</u> REVISION comments	In line 99 of page 3, replace meet by “met”	Done, many thanks.
<u>Optional/General</u> comments		