



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_9141
Title of the Manuscript:	D-optimal Exact Design: Weighted Variance Approach and a Continuous Search Technique
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.

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	<p>Manuscript wins to be more detailed.</p> <p>Line 25: in $f(x)$ multiplying a' with x is not possible. It may be necessary to write $f(x) = xa + e$ and then it sticks with the result.</p> <p>Line 28: x is of dimension r (r lines). Question: why change x dimension between $f(x)$ and $g_i(x)$?</p> <p>Is there a relationship between e line 25 and u line 28? If yes, which?</p> <p>Line 33: I think $x_i = (x_{i1}, \dots, x_{ir})$ and non x_{in} that is the number of columns of \underline{x} in g.</p> <p>Line 36: End of first column x_{N1} instead of x_{Ni}.</p> <p>I think that there is no ' on the \underline{x}_i in the last part of the equality.</p> <p>Line 37: Why Index A?</p> <p>Moreover the last average is of index r, corresponding to the columns of X line 36.</p> <p><u>Important</u>: the index of the average is j. We sum on the index i (averages column of X in line 36).</p> <p>Line 50: remove the p and put that p_A.</p> <p><u>Important</u>: You get the minimum of what function? If it is the derivative with respect to p this cannot be 0. The formula is not clear and you do not give references.</p> <p>Line 51: for x_A, putting a bar above and note the index A1. Otherwise in step 2, for $j = 2$, it does not recognize the first term of the sum (line 52).</p> <p>Line 56: $\xi_N^{(0)}$ is not defined before.</p>	



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	<p>Line 60: three points are sufficient and in line 64, 68, 69, 70, 75 and line 78.</p> <p>Line 68: It seems that something is missing in the third term; in index b_n.</p> <p>Line 115 : Why a' is replaced by $^a y'$. Furthermore $^a y'$, it is of dimension (4, 1) and not (2, 1), does not stick.</p> <p>It would be good to resume the writing of this work well to highlight the originality of his method and more importantly, that mathematical rigor is in order to make the article more readable.</p>	
<u>Minor</u> REVISION comments	<p>Line 31: N is not defined.</p> <p>Line 46 : lack a star on d_A</p>	
<u>Optional/General</u> comments	<p>The illustrative example is very properly conducted. This is a positive aspect of the job.</p>	

Note: Anonymous Reviewer