



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2013_BJMCS_5614
Title of the Manuscript:	A NOVEL APPROCH FOR SPHERE DECODER MIMO SYSTEM
Type of the Article	Research Paper

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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	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>
<u>Compulsory</u> REVISION comments	The proposed algorithm is a modified version of K-best algorithm, and its complexity is higher than that of K-best. Therefore, it's better to give the performance comparison between these two algorithms. Moreover, the author should provide the complexity comparison, so that we can see whether it is worthy to pay additional computation complexity for the performance improvement. If there is a proper solution or discussion of the challenge—"the choice of α", the paper will be better, or at least the value of α in the simulation should be given.	The complexity comparison of simulation result (SNR v Total no. of visited nodes) has been included in the manuscript. The value of α is also added.
<u>Minor</u> REVISION comments	It's better for the author to give more detailed simulation parameters, especially the channel information, because the channel quality influences the proposed algorithm. If the channel quality is bad, the received vector may be far from the actual transmitted vector in the hyperspace, then the value of α should be larger to obtain performance improvement than the conventional K-best algorithm.	Done.
<u>Optional/General</u> comments		