



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_13115
Title of the Manuscript:	Sum Rate Maximization Based on Joint Power Control and Beamforming in MIMO One Way AF Relay Networks
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)
<u>Compulsory</u> REVISION comments	1-This paper is about the MIMO one way AF relay network. It focuses on using power control to achieve the maximum sum rate. The title of this paper is related with Beamforming but the result of simulation doesn't consider it. 2-The algorithms in this paper are all from others reference so I think its contribution is not enough. 3-In column 351, it should be figure 7 instead of figure 8. 4-The last problem in this dissertation is the subscript which is not obvious and clear. For example, the problem can be found out in column 180.	1-In this research the main goal is finding an optimum beamforming matrix in relays which maximizes the sum rate while the total power consumed in relay is not greater than a predefined threshold. We solved the optimization problem by finding X where $X = ww^H$ and w is the relays beamforming matrix. So, beamforming has an important role in our algorithm. To highlight the beamforming, the role of beamforming is presented in conclusion part of revised version of paper. 2- Just TL algorithm is from references and the two other algorithms are new. Also, both of them outperform TL. 3-You are right, it is changed as noted by reviewer. 4-In order to consider the reviewer comment, columns 180 and 111 are corrected. Other subscripts are correct.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		