



SDI Review Form 1.6

Journal Name:	<u>British Journal of Mathematics & Computer Science</u>
Manuscript Number:	2014_BJMCS_15452
Title of the Manuscript:	WSN: Lifetime Maximization of Rumor Routing Protocol with Optimization scheme and Bandwidth Evaluation
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.

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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	- The paper must be rewritten. It is so difficult to understand the meaning of some sentences. The English must be enhanced. I suggest that an English native language review is mandatory; - Literature review is outdated, e.g. [5]. Some recent works must be included in the paper review; - Figure 1 is not correct. Maximizing battery life is done in all the protocols stack. TDMA is not the only possible MAC protocol.	The complete paper has been checked and corrected. Reference [5] is the base paper of rumor routing however the recent work 2013 are also mentioned as reference [8,18, 40]. Figure .1 is corrected and justification is given below. The sensor nodes that represent wsn have some limitations like restricted battery power, memory limitation, restricted bandwidth etc. then scheming an efficient MAC layer protocol are a difficult task. TDMA-based MAC protocols know how to avoid collisions, overhearing and inactive listening and hence energy efficient.
<u>Minor</u> REVISION comments	- Please include in the Introduction Section, the paper organisation; - Instead of "all node transmission range (50m×50m)", it is correct to use "all node transmission range is 50m" - In Figure 2, the source node and the sink node are not located as the author indicates the description; - In [37], the author does not specify that those modulations are used in WSN. Please correct	Modified and corrected in article (In this paper performance analysis of energy and bandwidth in wireless sensor network section 2 present the review on related research. section 3 describe the brief concept of rumor routing protocol. section 4 simulation environment is given. Section 5 calculation of BER and mathematical analysis. Section 6 calculation of distance between of two node and signal strength. Section 7 implementation of rumor routing with optimization. In Section 8 evaluation of bandwidth in source to sink node and section 9 analyzed the simulated result. At last sections 10 present the conclusion.) Modified and corrected in text and figure. Modified and corrected in text and figure.



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	that; - In page 3, line 117: QPSK modulate over AWGN (Additive white Gaussian noise) channel method. What is the meaning? - In equations, there are some parameters that are not explained; - The flowchart in page 6 is fuzzy, thus, is not readable. Please, enhance its quality; - Page 7, line 227: “has an initial battery $E_n(m)$. What is “m”.	Modulation scheme used [37] has been include in text. Expiation of QPSK and AWGN is add in the text and all the parameter of equations are explain we tackle the problem of minimising the effect of oscillator phase noise on the coherent detection of a quadrature phase shift keying (QPSK) modulation operating on an Additive White Gaussian Noise (AWGN) channel Modified and enlarged flowchart. 1 (m) sink node (Destination node)
<u>Optional/General</u> comments		