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Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2014_BJMCS_14799
Title of the Manuscript:	TRANSIENT SOLUTION OF MACHINE INTERFERENCE PROBLEM WITH AN UNRELIABLE SERVER UNDER MULTIPLE VACATIONS POLICY
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.

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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	I think in the paper there are a lot of errors that must be corrected. I list the errors I noticed after a quick review of the manuscript. 1. The author does not explain the concept of multiple vacations. When does the server take vacation? For how long? 2. The symbol θ is not explained in the manuscript. 3. The manuscript is poorly edited. For example, mathematical symbols and notations should be written in italics. Or in some equations a strange symbol for λ is used. 4. I think the substantial part of the manuscript is solving the equations in Matlab. Why did not the author show the code in Matlab? I think the author should upload the code and give the link in references. 5. I think some sentences of the manuscript are redundant. For example check page 5, lines 133 – 142. 6. The author states that the service rate is state dependent. But in the experiments only single value of the service rate is applied. Why? There is no explanation. 7. Page 3, lines 90 – 93. According to the definition of the state space the system can	The concept of multiple vacations has been explained. θ have been explained. This have been corrected. The MATLAB code is attached. This have been corrected,



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	be found is state 1,0 or 2,0. However for these states there are no equations in the equations system. Why? 8. I think the author should depict the state space and possible transitions in a state transition diagram. It is difficult to check the equations without the diagram. 9. Page 3, line 104 – the equation system is formed by 1+3M equations. But the number does not correspond to the definition of the state space. 10. Page 4, line 117 – I think the formula is wrong. The formula does not calculate the expected number of server vacation as written in the manuscript. 11. Page 5, lines 130 – 132 – $P_{(i,n)}$ is not the transient probability, it is the steady-state probability. It must be written $P_{(i,n)}(t)$. The same holds for the initial conditions. 12. Table 5 – the time dependent results are for what value of t? 13. The manuscript should undergo English proofreading. I am not an expert on English but I found a lot of grammatical errors.	The formula for the expected number of server vacation is correct because $P_{0,12}(t)$ is when the system is on vacation. This has been corrected.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		