



SDI FINAL EVALUATION FORM 1.1

**PART 1:**

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| Journal Name:            | British Journal of Mathematics & Computer Science                                 |
| Manuscript Number:       | Ms_BJMCS_19209                                                                    |
| Title of the Manuscript: | Machine Interference Problem with Reliable Server under Multiple Vacations Policy |
| Type of the Article      | Original Research Article                                                         |

**PART 2:**

| FINAL EVALUATOR'S comments on revised paper (if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Authors' response to final evaluator's comments                                                                                                                                                                                                                                                                                  |
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| <p>1. The show that with the same service rate <math>\mu</math>, failure rate <math>\lambda</math> and vacation length <math>\theta</math>, as the number of operating machine in the system increases the variance also increases.</p> <p>The grammar is incorrect.</p> <p>2. It should be System with multiple vacations.</p> <p>3. It should be model of multiple vacations</p> <p>4. The result also show that the .... Should be The result also shows that...</p> <p>5. CPU time for the machine interference problem with a reliable server under single vacation policy is slightly lower than that of machine interference problem with an unreliable server under single vacation policy. .... It should be less than</p> <p>6. In the machine interference problem the repairer (server) repairs the broken down machine so as ( no need ) to make it operational</p> <p>7. we say the machine interfere with each other's service...</p> <p>8. There are still many grammar mistakes need to be correct. The meaning of some sentences is not clear due to the way of using language.</p> <p>9. I suppose the author takes the derivative w.r.t. h from<br/><math>P_{0,n}(t+h) = P_{0,n}(t)[1-(M-n)\lambda h][1-\theta h] + P_{0,n-1}(t)[(M-n+1)\lambda h][1-\theta h]</math><br/>to obtain <math>P'_{0,n}(t) = -(\theta + (M-n)\lambda)P_{0,n}(t) + (M-n+1)\lambda P_{0,n-1}(t)</math></p> <p>Using the product rule for <math>[1-(M-n)\lambda h][1-\theta h]</math>, I can't get <math>-(\theta+(M-n)\lambda)</math>. Please explain, thanks.</p> <p>10. Use the term "vacation length" is not that clear. It is better to use length of vacation.</p> | <p>This has been corrected.</p> <p>This has been corrected.</p> <p>Corrected</p> <p>This has been corrected.</p> <p>The product rule gives <math>[1-\theta(h)-(M-n)\lambda(h)+\theta(M-n)\lambda(h^2)]</math>, as <math>\lim_{h \rightarrow 0} o(h)</math> tends to zero. We have <math>[1-\theta(h)-(M-n)\lambda(h)]</math></p> |