

Review Form 1.7

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| Journal Name: | Journal of Advances in Mathematics and Computer Science |
| Manuscript Number: | Ms_JAMCS_99251 |
| Title of the Manuscript: | A Three-Level Game-Theoretic Trade Credit Model in a Supply Channel |
| Type of the 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:

(<https://www.journaljamcs.com/index.php/JAMCS/editorial-policy>)

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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) |
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| <p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p> | <p>Y The work uses game theory to consider the interaction between promotion and credit period in a three-member trade credit setting, in which the manufacturer provides the distributor with goods on credit, and allows a payment period.</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>N The author should clarify the assumptions for the model (see comments).</p> <p>Y</p> | |
| <p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p> | Y | |
| <p>Optional/General comments</p> | <p>1. The author assumes that the provision of trade credit is proportional to the promotion expenditure: $C_D \propto \psi_R, C_M \propto \psi_R$. However, the manufacturer's and distributor's credit functions are established as square-root ones:</p> $C_M = \frac{k_M M_M \sqrt{\psi_R}}{L_M}, \quad C_D = \frac{k_D M_D \sqrt{\psi_R}}{L_D},$ <p>2. The amount of credit may be indeed inversely proportional to the payment time, but it's proportional to time how the given amount of credit affects the bottom line Π_R, Π_D, Π_M.</p> <p>3. The proportionality constant should be established for the demand function (1) in order to get the correct dimensionality for terms $M_{RN}\sqrt{\psi_R}, M_D\sqrt{\psi_R}, M_M\sqrt{\psi_R}$ in formulas (2)-(4).</p> | |

PART 2:

| | 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) |
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| <p>Are there ethical issues in this manuscript?</p> | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> | |

Reviewer Details:

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|----------------------------------|----------------------------|
| Name: | Pavel Levin |
| Department, University & Country | St. John's University, USA |