

## Review Form 1.7

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| Journal Name:            | Current Journal of Applied Science and Technology  |
| Manuscript Number:       | Ms_CJAST_119700  |
| Title of the Manuscript: | A scientific computing analysis of financial Black-Scholes and Monte Carlo differential equation: An American option |
| Type of the Article      |  |

### 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) |
|--|---|---|
| <p><b>Compulsory</b> REVISION comments</p> <p>1. Is the manuscript important for scientific community?<br/>(Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable?<br/>(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><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <p>1. Yes</p> <p>2. Yes</p> <p>3. Yes</p> <p>4. Yes</p> <p>5. Yes</p> <p>6. Yes</p>   |   |
| <p><b>Minor</b> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>  | <p>The English quality of the paper is good.</p>  |   |
| <p><b>Optional/General</b> comments</p>  | <p>The manuscript is well constructed and clearly reported.<br/>This study presents a computational approach to analyze the effectiveness of the Black-Scholes model and Monte Carlo methods in the valuation of American options.<br/>The mathematical approach followed by the author demonstrates that Monte Carlo simulations provide a more robust and adaptable framework for pricing American options.<br/>This adds relevant knowledge in the analysis of financial models.</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) |
|---|---|---|
| <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> |   |

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**Reviewer Details:**

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|----------------------------------|--|
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