|  |  |
| --- | --- |
| Journal Name: | **[Asian Journal of Research in Computer Science](https://journalajrcos.com/index.php/AJRCOS)** |
| Manuscript Number: | **Ms\_AJRCOS\_134936** |
| Title of the Manuscript: | **SOLVING QUADRATIC EQUATIONS WITH COMPLEX COEFFICIENTS & DETERMINING THE SECOND ROOT FOR ANY COMPLEX NUMBER** |
| Type of the Article | Research |

|  |  |  |
| --- | --- | --- |
| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | This article provides an expression for the square root of the complex number z, in terms of |z| in terms of z, |z|, and the square root of the real nonnegative number (|z|+Re(z))/2. One of the motivations in doing this is to solve the two-degree algebraic equation with constant coefficients. Possible applications in complex analysis and implications in other domains involving complex numbers are also outlined. Two algorithms and the corresponding computer programs are added in the Appendix**.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title seems to be ok. However, instead of “the second root”, it is more precise to write “the square root”. The rest of the title might remain unchanged**.** |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | The abstract is comprehensive**.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript seems to be scientifically correct. |  |
| **Are the references sufficient and recent? If you have**  **suggestions of additional references, please mention them in the review form.** | There are sufficient references, and a few of them are recent. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | The English quality of the article is suitable for scholarly communications. |  |
| **Optional/General** comments |  |  |

|  |  |  |
| --- | --- | --- |
| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)*  No |  |

**Reviewer Details:**

**Cristian Octav Olteanu, Polytechnique University of Bucharest, Romania**