|  |
| --- |
|  |
| Book Name: | [**Engineering Research: Perspectives on Recent Advances**](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5834** |
| Title of the Manuscript:  | **Numerical analysis of formation of ICE in aircraft wing** |
| Type of the Article | **Book Chapter** |

|  |
| --- |
| 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.** | **The manuscript shows the critical safety issue in aviation by investigating the effects of ice accretion on aerodynamic performance.****The Reynolds-Averaged Navier-Stokes (RANS) model is used to solve for the aerodynamic airflow field.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **No****Numerical Investigation of Ice Accretion Effects on Aircraft Wing Aerodynamics.** **(The suggested title better highlights the practical impact of the study, which can make it more appealing and relevant to researchers)** |  |
| 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 covers the general topic and research aim but lacks clarity, structure, and some key elements typically expected in a scientific abstract.****Suggestion:** **This study numerically simulates ice formation on the NACA0012 airfoil to evaluate its impact on aerodynamic performance, focusing on lift, stall angle, and aircraft stability.** |  |
| **Is the manuscript scientifically, correct? Please write here.**  |  **yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** |  **yes** |  |
| Is the language/English quality of the article suitable for scholarly communications? | There are a few grammar mistakes and awkward sentences in the text that might make it harder for readers to follow and could make the writing seem less professional than what’s usually expected in academic papers. |  |
| Optional/General comments | I encourage the authors to revise the abstract and main text for clarity and flow, which will help engage a wider scientific audience.I look forward to seeing the improved version. |  |

|  |
| --- |
| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s Feedback** (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 details)* |  |

**Reviewer details:**

**Subash Dhakal, University of Padova, Italy**