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I declare, I confirm, I certify and I sign that I received substantial, important, line by line peer review with several and substantial comments, important remarks and hints from, at least, 3 Reviewers and the Assistant Editor for my paper: Optimal Imperfect Maintenance Policy of Aircraft Component Considering the effect of Human Factors

with

Authors: WEN KAITING, ZHANG CHUNXIAO, GUO ZIYING, TAN JINGWEN, JIA XUEFEI, ZHAO TONGTONG, LI XIANG

I would like to thank all the reviewers for their thoughtful comments and efforts towards improving our manuscript. We revised the manuscript with special attention to the comments that we received from three reviewers that were experts, specialists in the area of my paper. I declare, confirm, certify and sign that WSEAS has checked my paper for possible plagiarism by Turnitin and my paper was found without plagiarism or self-plagiarism by Turnitin. I also declare, confirm, certify and sign that also that no Associate-Editor, no Editor-in-Chief, no member of the WSEAS Secretariat forced me in this Journal to add references (citations) to any previous publications of the journal.

I also declare, confirm, certify and sign that I have made all the changes, modifications, additions, studies, corrections asked by the reviewers and I have fully complied with their instructions. I also understand that before the publication the 3 (or more than 3) reviewers will check my paper to see if all the changes, modifications, additions, studies, corrections etc have been done and I authorize the WSEAS to publish my paper or to reject my paper even in the 2nd round of peer review or to continue with an additional round of peer review.

I also declare, I confirm, I certify and I sign that I will not publish this paper or an important part of the paper in any other Journal (inside or outside WSEAS) Conference Proceedings (inside or outside WSEAS), Book (inside

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I also declare, I confirm, I certify and I sign that this paper or an important part of the paper has not been published other Journal (inside or outside WSEAS) Conference Proceedings (inside or outside WSEAS), Book (inside or outside WSEAS), University Repository etc). In case of violation of the above terms, WSEAS can reject any unpublished paper or even retract any published paper.

I sincerely appreciate the rigorous peer-review process organized by WSEAS. The three reviewers provided exceptionally detailed and constructive comments, which greatly enhanced the academic quality of our paper titled "Optimal Imperfect Maintenance Policy of Aircraft Component Considering the effect of Human Factors". Special thanks to the editorial team for their efficient coordination, making this publication both impactful and equitable. I highly recommend WSEAS to fellow researchers.

Signature

Handwritten signature in black ink, appearing to read 'Yang Kaiqiang' (Yang Kaiqiang).

Date: 2-10-2025

Responses to Reviewers

Reviewer # 1

Reviewer's #1 comment	Authors response	Action Taken
However, some notational inconsistencies (e.g., undefined symbols like $\phi(t)$, $R_i(t)$, and μ) and typographical issues (e.g., redundant colons, missing variables, formatting) reduce readability.	In the original text, I did not find what you mentioned regarding $\phi(t)$ and $R_i(t)$, but I suspect you meant that there are similar undefined symbols in the text. To prevent ambiguity, I carefully reviewed all similar symbols again and added the exact definitions of the undefined symbols (such as $F(iT)$, $f(iT)$, $\bar{F}(t)$) in the notation section of the second section. Regarding the typesetting and formatting issues you mentioned, I have corrected the original text according to the official WSEAS format standards (such as font size, case issues, and I added relevant content about the contributions of the authors at the end of the fifth section).	Done
Also, the reference list should be further enriched, and the authors are urged to integrate a wider array of experiments and simulations—ideally those substantiated by computational modeling. Including comparative tables could significantly improve the manuscript's clarity and enhance the depth of analysis.	As you said, due to the avoidance of excessive plagiarism checking rates, the references have increased [13][14], and we conducted a sensitivity analysis on the interaction between different parameters, including the maintenance probability parameter and the repair time parameter, and evaluated the impact of these parameter changes on the optimal maintenance strategy, adding a wider range of experiments and simulations, such as the trend of T^* with $q_1/(q_1+q_2)$ under different (q_1+q_2) and providing corresponding visualization charts and data.	The number of references has been increased [13][14], and the trend of T^* with $q_1/(q_1+q_2)$ under different (q_1+q_2) has been added, and charts and analysis have been added accordingly.
A substantial segment of the manuscript seems to rely extensively on existing literature, and the authors have yet to convincingly articulate the	Although the formula section is mostly based on the book "Imperfect Preventive Maintenance", Springer Series in Reliability Engineering, 2005,	Done

originality or innovative contribution of their study.	we have also innovated and added a new variable α_3 (Mean renew time of aircraft component under perfect) to the original repair), which makes the model closer to the actual maintenance scenario and improves the prediction accuracy and applicability. By introducing this variable, we rederive the system reliability indicators and perform numerical simulations based on new mathematical expressions. The results show that the improved model can more accurately reflect the performance degradation process of aviation components under different maintenance strategies, which provides a more practical theoretical basis for the optimization of maintenance plans. Thank you for your valuable suggestions, and in the future, we will definitely pay more attention to the originality and innovative contribution of research, and continue to innovate on the basis of existing literature.	
The updated manuscript must adhere precisely to the official formatting standards, with no exceptions.	The updated manuscript has been modified in accordance with the official formatting standards.	Done

Reviewer #2

Reviewer's #2 comment	Authors response	Action Taken
However, the presentation of equations (especially in Sections 2 and 3) could benefit from consistent formatting. The notations sometimes shift or are vaguely defined, making it difficult to follow the derivation. A list of all symbols and parameters with clear definitions at the beginning of the model section would greatly improve comprehensibility.	We have made comprehensive adjustments to the presentation of the equations to ensure consistent use of symbols in sections 2 and 3, and have listed all symbols and their clear definitions at the beginning of the model section to enhance the readability of the formulation.	Done
However, the paper would benefit from a more detailed discussion on how expert opinions were aggregated, the consistency of the AHP judgments, and how the final weights were validated.	In the fourth section, we supplement the method of summarizing experts' opinions, that is, experts form a judgment matrix through scoring and then summarize their opinions, which not only retains the experts' professional judgment, but also standardizes the expression of subjective opinions through the mathematical properties of the matrix (such as proportional consistency), and we also introduce in detail the processing process of AHP judgment consistency to enhance the transparency and reproducibility of the method. Finally, due to space limitations, it is not written in the original text, and we use sensitivity analysis to deliberately adjust the weights of indicators to observe whether the decision results (such as the ranking of schemes) have changed significantly, and to test the stability of the weights - if the weight fluctuates slightly and does not change the decision conclusion, the weight is reliable. After analysis, the final weight is reliable.	Done
The in-text references must align precisely with the corresponding entries in the bibliography, and the reverse is equally essential. Additionally, all visuals—including	The citations and bibliographies in the text have been mapped one by one, and all visuals (including figures, tables and equations) have been correctly	Done

figures, tables, and equations—should be properly numbered and labeled, ensuring they correspond accurately with their mentions within the main text.	numbered and marked to be exactly consistent with the references in the text.	
The work exhibits minimal innovation and barely satisfies the journal's criteria for publication. The authors are required to remove any duplicate content that may have appeared in prior publications, whether in journal articles or conference proceedings. The paper should only be reconsidered for publication after it has undergone a comprehensive and meticulous revision process	Thank you for your valuable suggestions, and in the future, we will definitely pay more attention to the originality and innovative contribution of research, and continue to innovate on the basis of existing literature. We have tried to remove duplicate content in the publication to reduce the plagiarism rate of the whole article.	Done

Reviewer #3

Reviewer's #3 comment	Authors response	Action Taken
Nonetheless, better formatting of figures and captions, as well as higher resolution images, would significantly improve the readability and visual quality of the results.	For the headline format, I have adjusted it to ensure that each title accurately reflects the theme of its corresponding content and adopts a uniform formatting style to enhance the clarity of the overall structure. Additionally, I rechecked the resolution of all charts, replacing them with higher definition images to ensure readability when zoomed in. All figures and tables are numbered exactly corresponding to the citations in the text, avoiding inconsistency. These modifications aim to improve the visual presentation and academic standardization of articles, making them more in line with the journal's publishing requirements.	Done
The authors are encouraged to include suggestions for prospective areas of research. Revisiting and refining the methodology section would likely enhance the overall clarity and quality. Attention to	There is a future outlook section in the fifth section, which may not be very specific. Due to the limited space of the article, we will elaborate here: Our future research will focus on three key directions: first, using the	Done

formatting details and a meticulous review for grammar and syntax errors are essential. Language issues can be efficiently addressed with built-in tools like Gmail's spell checker or comprehensive platforms such as Grammarly. A large proportion of submissions are declined by prominent indexing databases like Google Scholar, ISI, EBSCO, IET, and Scopus due to substandard referencing and poorly articulated content. Therefore, it is vital that the manuscript is composed in fluent, well-edited English, and that all citations strictly conform to the required formatting standards.	federated learning framework to solve industrial data silos and establish a multi-component fault correlation model; second, use robust optimization methods to develop dynamic collaborative maintenance strategies to deal with sudden resource shortages; The third is to integrate large language models (LLMs) and explainable artificial intelligence (XAI) technologies to build a highly transparent and high-credibility intelligent maintenance decision-making system to comprehensively improve the reliability and operation and maintenance level of complex industrial systems. We have revisited and refined the methodology section, adding a more detailed discussion of how expert opinions are summarized, the consistency of AHP judgments, and how to validate the final weights. The full text is carefully polished, and the language is fluent Grammarly is professionally proofread to eliminate errors; All references are carefully cross-checked and reformatted to ensure strict and accurate compliance with the required citation standards. We believe that these comprehensive edits significantly enhance the overall quality and publication readiness of the manuscript.	
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